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0001
  UNITED STATES SECURITIES AND EXCHANGE COMMISSION
2
3
  In the Matter of:
                   ) File No. SF-04030-A
5 THERANOS, INC.
6
7 WITNESS: Ramesh "Sunny" Balwani
8 PAGES: 1 through 394
9 PLACE: Securities and Exchange Commission
         44 Montgomery Street
10
         Suite 2800
11
         San Francisco, CA
12
13 DATE:
            Wednesday, August 9, 2017
14
15
16
      The above-entitled matter came on for hearing,
17 pursuant to notice, at 9:03 a.m.
18
19
20
21
22
23
24
        Diversified Reporting Services, Inc.
25
              (202) 467-9200
0002
  APPEARANCES:
1
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3
  On behalf of the Securities and Exchange Commission:
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     JESSICA CHAN, ESQ.
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     MONIQUE WINKLER
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     MICHAEL FOLEY
     JASON HABERMEYER, ESQ.
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      (b)(6); (b)(7)(C)
               a sec.gov
13
     14
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0003
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13
                 Videographer
14
15
16
17
18
19
20
21
22
23
24
25
0004
              CONTENTS
1
2
3
   WITNESS:
                                EXAMINATION
  Ramesh "Sunny" Balwani
                                           5
5
6 EXHIBITS:
                DESCRIPTION
                                         IDENTIFIED
   233
7
          Copy of SEC's Commission
                                     7
        Form 1662
8
9
   234
          Subpoena
                                     13
10
   235
          Response to questionnaire
         Bates SEC-PRM-E 6971
                                           14
11
12
    236
          E-mails Bates Balwani-2870
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13
    237
          E-mails Bates TH-PFM001829250
                                                171
14
    238
                                            192
          E-mails Bates TS-1072845
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15 239
          E-mail's attachment
16 240
          E-mails Bates TH-PFM0000147224
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17
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          E-mail's attachment
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18
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19 243
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          Timeline from Walgreens
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21
    245
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22
23
24
25
0005
1
            PROCEEDINGS
2
        MR. KOLHATKAR: This is the testimony of
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Ramesh Balwani. Going on the record in San Francisco,
   California, at 9:03 a.m. on August 9, 2017.
         Mr. Balwani, can you please raise your right
5
6 hand.
   Whereupon,
7
8
            RAMESH "SUNNY" BALWANI
9
   was called as a witness and, having been first duly
10 sworn, was examined and testified as follows:
11
                EXAMINATION
12
         BY MR. KOLHATKAR:
13
       Q Could you please state and spell your full
14 name for the record.
       A First name is Ramesh, R-A-M-E-S-H; last name
15
16 is Balwani, B-A-L-W-A-N-I.
       Q Do you also go by Sunny?
17
18
          Yeah. Mostly -- most people call me Sunny.
19
          My name is Rahul Kolhatkar. With me are
20 Jessica Chan, Michael Foley, Jason Habermeyer, and
21 Monique Winkler. Ms. Chan and I are staff attorneys,
22 Mr. Foley is a staff accountant, Ms. Winkler is
23 assistant director, and Mr. Habermeyer is a trial
24 counsel in the San Francisco regional office of the
25 U.S. Securities & Exchange Commission. We're officers
0006
1
   of the Commission for the purpose of this proceeding.
         This is an investigation by the Securities &
3 Exchange Commission in the matter of Theranos, Inc.,
4 SF-4030 to determine whether there have been any
5 violations of certain provisions of the federal
6 securities laws. However, the facts developed in this
   investigation might constitute violations of other
8
   federal or state, civil, or criminal laws.
9
         Prior to the opening of the record, you were
10 provided a -- with a copy of the formal order of the
   investigation in the matter. It's this document
12
   (indicating).
13
      A Uh-huh.
14
         THE REPORTER: Counsel, can you slow down,
15 please.
16
         MR. KOLHATKAR: Sure.
17
         BY MR. KOLHATKAR:
18
       Q The formal order will be available for your
19
   examination during the course of this proceeding.
20
         Have you had an opportunity to review the
21
   formal order?
22
       A Yes.
23
          In connection with your subpoena, you were
24 also provided with a copy of the Commission's Form
25 1662.
0007
1
         MR. KOLHATKAR: I'm going to mark it as 233
2
   (handing).
3
         MR. COOPERSMITH: Thank you.
4
                  (SEC Exhibit No. 233 was
```

```
5
                 marked for identification.)
6
         BY MR. KOLHATKAR:
7
      Q So for the record, Exhibit 233 is a copy of
8 the SEC's Commission Form 1662.
9
         Have you received the copy -- a copy of
10 Exhibit 233 before?
11
      A I may have, but I don't recall reading this.
12
      Q Have you had an opportunity to review it in
13 the past?
14
      A I don't recall.
15
         MR. KOLHATKAR: Why don't we go off the
16 record briefly at 9:05. And if you want to take the
   opportunity to review it with your -- with your
18 attorney, you can.
19
         MR. COOPERSMITH: Yeah. We can have a quick
20 conversation about that. We won't take too long.
21
         MR. KOLHATKAR: Sure.
22
         MR. COOPERSMITH: Yeah.
23
         THE VIDEOGRAPHER: Okay. It's 9:05. We're
24 going off the record. Please don't forget about your
25 microphones.
0008
1
         (A brief recess was taken.)
2
         THE VIDEOGRAPHER: Rolling.
3
        MR. KOLHATKAR: Back on the record at 9:07
4 a.m.
5
        BY MR. KOLHATKAR:
6
      O Mr. Balwani, after each break, I'm going to
7
   ask you a question which is just to ask if you had any
8
   substantive conversations during -- during the break.
9
         Did we have any substantive conversations
10 during the break?
      A With the Commission?
11
12
      Q With me.
13
      A No, I did not.
14
         MR. COOPERSMITH: Oh, by the way, before we
15 go, we should probably just introduce ourselves to --
16 for the record.
17
         MR. KOLHATKAR: Yeah. That --
18
         MR. COOPERSMITH: Are you going to get to
19 that?
20
         MR. KOLHATKAR: -- that's my next question.
21
         MR. COOPERSMITH: Fair enough.
22
         BY MR. KOLHATKAR:
23
      Q So -- so the question is: Have you had an
24 opportunity to review Exhibit 233?
25
      A Yes, I have.
0009
1
      Q Mr. Balwani, are you represented by counsel
2
  today?
3
      A Yes, I am.
4
         MR. KOLHATKAR: Would counsel please
5 introduce themselves?
6
        MR. COOPERSMITH: I'm Jeff Coopersmith with
```

```
Davis Wright Tremaine, representing Mr. Balwani, and
8 with me is John McKay, also representing Mr. Balwani,
9 Kelly Gorton, same, and Mr. Jim Topinka who is also
10 representing Mr. Balwani.
11
          MR. KOLHATKAR: Mr. Coopersmith, this is a
12 bit antiquated. We also ask for a firm address and
13
   phone number still.
14
          MR. COOPERSMITH: Okay.
15
          MR. KOLHATKAR: Yeah.
16
          MR. COOPERSMITH: So this is the San
17 Francisco office. I'll let Kelly speak to that.
18
          MS. GORTON: 505 Montgomery Street, Suite
19 800, San Francisco, California 94111.
20
          MR. KOLHATKAR: And do you represent Mr.
21 Balwani in his personal capacity?
22
          MR. COOPERSMITH: Yes. All of us do.
23
          BY MR. KOLHATKAR:
         Mr. Balwani, have you been deposed or given
24
25 testimony under oath before?
0010
1
      A
          I believe I have done that once before.
2
          When was that?
3
      A I think it was either 2003 or 2004, and it
   was right here in San Francisco.
          So this is sort of similar to a deposition or
5
6 testimony under oath, but I just want to give you
   some -- some sort of basic ground rules that -- that
   I'm going to be operating off of and -- and I want you
   to be aware of.
10
       A Sure.
11
       0
         Does that sound okay?
12
          Yeah.
13
           So first, the court reporter is going to be
14 recording and transcribing what we say today, so it's
15 important that we talk only one at a time. I'll --
16 I'll try and wait until you finish a question -- an
17 answer to my question before asking my next one, and I
   ask that you please do the same for me.
18
19
       A Okay.
           Does that sound okay?
20
       O
21
       A
           Yes.
22
         For the same reason, it's also important that
23 you answer audibly rather than responding with gestures
24 or nods.
25
          Is that okay?
0011
1
      A
          Yes.
2
      Q Even though this is a somewhat less formal
   setting than a deposition, the oath that you just made
   has the same effect as if you were testifying in court
5
   and carries with it the same penalty for perjury.
         Do you understand that?
6
7
      A I do.
8
          It's also a crime to knowingly present false
```

```
information during the course of this investigation.
10
          Do you understand that?
11
       A I do.
12
       Q If there's any -- if there's any question
13 that I ask that you don't understand, please let me
   know so I can repeat or rephrase the question. If you
   don't ask me or tell me that you don't understand, I'm
16
   going to assume that you understand the question.
17
          Is that okay?
18
       A Yes.
19
         If you need a break at any time, please let
20 me know and we'll try to accommodate you. Generally,
    we'll ask that you answer any pending questions before
   taking a break.
         Is that okay?
23
24
       A
          Yes.
25
          Is there any reason why you can't give full,
0012
   complete, and truthful testimony today?
1
2
      A
          No.
3
          So, Mr. Balwani, when was your last
   communication with Elizabeth Holmes?
          I think earlier this year, I had run into her
6 when I was running -- I had gone for a jog, and I saw
   her, we just said "Hi" to her, and we moved on. That's
7
8 it.
9
      O Earlier in 2017?
       A Yes. Probably January or February timeframe.
10
11
          And I guess other than -- and Ms. Holmes
12 hasn't given you any -- let me ask it in a more
13
    open-ended way.
14
          Has Ms. Holmes given you any instructions on
15 what your testimony should be today?
16
       A No.
17
          And I'm going to try not to inquire about any
18 conversations you've had with counsel, and that's
19 something that you should keep in mind kind of
20 throughout my questions today. But other than your
    discussions with counsel, has anyone provided you with
22 comments on what the substance of your testimony should
23 be today?
24
       A No.
25
          I'm also going to hand you what's -- what
0013
1 I'll mark as Exhibit 234.
2
         MR. KOLHATKAR: Sorry, I think the courtesy
3
   copy is --
4
         THE WITNESS: Yeah.
5
         MR. COOPERSMITH: Sure.
6
         MR. KOLHATKAR: Yeah.
7
         THE WITNESS: The last page?
8
         MR. COOPERSMITH: Yeah.
9
                  (SEC Exhibit No. 234 was
10
                  marked for identification.)
```

```
11
          BY MR. KOLHATKAR:
12
       Q Mr. Balwani, do you recognize Exhibit 234?
13
       A I do.
14
       O Do you understand that it's a subpoena
15 compelling your testimony today?
16
       A Yes.
17
           And you understand that you're appearing
18 today pursuant to subpoena?
           Yes.
19
       A
20
       Q
           So I want to get just a little bit of
21
   background information about you. I'm hoping the
    easiest way to do that might be to refer to a document.
23
          So I'm going to mark as Exhibit 235 a
24 multipage document. For the record, 235 is a -- is a
25 document Bates-stamped SEC-PRM-E 6971.
0014
1
                  (SEC Exhibit No. 235 was
2
                  marked for identification.)
3
         BY MR. KOLHATKAR:
          Mr. Balwani, you -- do you recognize Exhibit
      O
5
   235?
6
      A I do.
7
      Q
          What is it?
8
          This is a response to a questionnaire that we
   had received -- I received from PFM's counsel as part
   of a complaint they had filed against the company and
11 myself.
12
       Q And did you provide information -- let -- let
13 me rephrase that.
14
          Why don't we turn to Interrogatory Number 5,
15 which is -- starts at 6975 and it goes on to the next
16 page.
17
          Yes. Okay. I see that.
       A
18
          Actually, why don't we start with
19
    Interrogatory Number 4 describing your educational and
20
   professional background.
21
       A Uh-huh. Yes.
22
          And you see the description that begins on
23 Page 4 and goes on to Page 5 here?
24
       A I do.
25
          Is that a fair and accurate representation of
0015
   your educational and professional background?
1
2
      Α
          Yes, it is.
3
      Q Is there anything important in terms of your
   educational and professional background that -- that
   you would add to this list that appears here?
5
      A I mean, just -- no, I -- I don't think so.
6
          Have you employed since -- have you been
7
   employed since you left Theranos?
8
9
      A No, I have not.
10
       O The -- one of the items here is listed as
   CommerceBid.com --
11
12
       A Yes.
```

```
13
           -- from 1999 to 2001?
14
       A
           Right.
15
       O
          What was CommerceBid.com?
16
       A CommerceBid.com was a startup that I had
17
   cofounded in '99. And it was an e-commerce business --
    a business -- an e-commerce startup. It's a software
   company and -- that we sold I think later that year to
20 a company called Commerce One. And it was at that time
21
   a very large e-commerce company. And we sold the
22
   company in December or January of 2001. I forgot which
23 exact month. And then I stayed at Commerce One as part
24 of that transaction.
25
          And I guess did -- were you a part owner of
0016
1
   the -- of the startup that was sold to Commerce One?
2
      A Yeah. I was a cofounder, so I was part
3
   owner.
4
      Q
          Okay. And so I guess how much -- what
5
   proceeds did you receive from the -- the -- the sale to
   Commerce One?
      A I don't remember exactly what, but it was
7
8 tens of millions.
          So I guess I've seen reference to CommerceBid
10 being sold for about $350 million; is that -- is that
11 accurate?
12
       A Yeah. I think the -- I don't remember the
   exact number. This is about 15, 20 years ago. But the
14 total size of the transaction was about -- about that.
15
       Q And was it a mix of cash and equity or --
16
       A It was very little cash. It was, I think, 4
17 or $5 million in cash. The rest was equity.
18
           And after -- after you left -- after you left
19 Commerce One, did you retain equity in Commerce One
20 then?
21
          I think I had sold pretty much everything. I
       Α
   doubt if -- if I retained anything. If I did, I
   probably sold it right after I left, is my -- my
24 recollection.
25
          Okay. So you -- I guess my main question is:
0017
1
   You didn't continue to be involved in any way in
2
   Commerce --
3
      A No.
4
      Q
          -- One after you left?
5
          I was not.
          If you look at Interrogatory Number 6, which
7
   is a couple of pages later in Exhibit 235 --
8
          Yes.
9
          -- there's a question asking you to identify
10 all e-mail addresses and social media accounts.
          Do you see that?
11
12
       A Yes. That I've used since January 1st. Yes,
13 I see that.
14
       Q
           Since January 1st, 2013; right?
```

15 Correct. Α 16 And you see the answer that's provided on 17 Pages 6 and 7 of this document? 18 A Yes, I do. 19 Q Is this a complete list of the e-mail 20 addresses and social media accounts you've used since January 30 -- January 1st, 2013? 22 A Correct. Yes, it is. 23 Q Any updates since you -- since you filed this 24 interrogatory response? 25 I have a couple of old e-mail accounts 0018 1 that -- that I have not used since January 1, 2013, and they just forward everything to (b)(6); (b)(7)(C) So that's the only details. BY MS. CHAN: 5 Q What are those other e-mail accounts? 6 They are -- I think it's (b)(6); (b)(7)(C) 7 (b)(6); (b)(7)(C) and -- actually, it's listed here. Never mind. That one is already here. It may be 9 (b)(6); (b)(7)(C) , but that's linked to this 10 e-mail account. 11 BY MR. KOLHATKAR: 12 And -- yeah. What is (b)(6); (b)(7)(C)? 13 It's just a domain name. I was -- I was 14 thinking about starting a company in education at some point. And I had registered a domain, but I never did anything more than that. But it's still (b)(6); (b)(7)(C) 17 (b)(6); (b)(7)(C) though. 18 Q Okay. 19 20 The Interrogatory Number 7 references your 21 ownership stake in Theranos. 22 Yes. 23 And you provided -- the answer provided here 24 is that you currently own (b)(6); (b)(7)(C) Class A 25 common stock as well as (b)(6) as -- and as well as the 0019 fact that the company is committed to issue (b)(6); (b)(7)(C) 1 2 RSUs? 3 A Correct. Is -- does that continue to be correct? 4 A It continues to be correct. The company has 6 not issued those yet. I have not asked for it yet. But the information is complete. 8 In other words, you haven't done any secondary transactions with respect to your Class A 10 Theranos shares? 11 No, not -- not now, not ever. Α 12 The -- if -- if you turn to Interrogatory 13 Number 8, the -- there's a question concerning your 14 salary and compensation from -- from Theranos. 15 Α Yes. 16 And it looks like your response lists a

17 salary and -- and the stock options that are -- that 18 are listed in response to Interrogatory 7. 19 Other than the -- sort of the salary, the 20 stock options, the healthcare benefits, and vacation 21 that are listed here, did you receive any other 22 compensation from Theranos? 23 A No, I did not. 24 And does this -- does your response to 25 Interrogatory Number 8 continue to be true today? 0020 1 A Yes, it does. 2 **EXAMINATION** 3 BY MS. CHAN: 4 Mr. Balwani, where do you live today? (b)(6); (b)(7)(C) 5 A (b)(6); 6 7 And what are -- what are some of the phone 8 numbers that you use? 9 A I only have one phone, and that's the cell phone here -- listed here somewhere, I think. (b)(7)(C) 10 (b)(6); (b)(7)(C) 11 Q Okay. 12 13 I used to have a landline that I disconnected a few years back, probably four or five years ago. What was that line? 15 (b)(6); (b)(7)(C) 16 A BY MR. KOLHATKAR: 17 18 You can put Exhibit 235 aside. 19 So I want to turn to the main reason why 20 we're here today, which is to talk about Theranos. 21 Can you just give us some background on when 22 you first met Elizabeth Holmes. 23 Sure. I met Ms. Holmes We 24 were both (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) 25 0021 1 So I had gone to (b)(6); (b)(7)(C) It seemed like a good place. And Ms. Holmes was there (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) 3 Well, she was (b)(6); (b)(7)(C) 4 there. 5 And I guess, can -- can you place that in your -- in your -- I guess in your career mindset at the time. You know, you've just sold this company for 8 a significant amount of money. 9 A Yeah. 10 What made you decide to go to business school 11 and to -- to study Mandarin at the time? 12 Well, I mean, I was fortunate that, you know, 13 I had some success in business, but my passion has always been, you know, to study more, education. I 15 wanted to do more and contribute more. 16 So I had started my MBA before I sold the 17 company, and then I dropped out to focus on my company. 18 But now I had more time, so I wanted to go and finish

- 19 my education. So I was doing my MBA when I decided
- 20 that at some point, I want to do more work in China,
- 21 potentially even live there for some time. And that's
- why I got -- I went to Beijing and studied Chinese.
   Q And I guess what can you recall from kind of
- 24 those first interactions? I mean, did -- was it -- was 25 it in a class setting or is it a social setting? 0022
- 1 A Well, we were living in the dormitory on
- 2 campus, and her room was, I think -- all the foreign
- 3 students from Berkeley -- I actually went there as part
- of the Stanford program, Stanford summer program. So
- 5 all of the Stanford students were on the same floor,
- 6 and her room was somewhere on the same floor. So this
- 7 is how I met her.
- 8 Our interactions at that time were friendly,
- 9 you know. We had conversations. She was very famous
- 10 in the Stanford Chinese program because the entire
- 11 department knew about her Chinese, her skills. And so
- 12 that's how -- when I -- when I first met her, I'm like,
- 13 "Oh, you must be the Elizabeth Holmes."
- And so that's how we formed the friendship there.
- 16 Q And at that time, you know, when you were --
- 17 when you were in Beijing, were you -- were you
- 18 discussing the -- was she discussing anything about
- 19 Theranos or starting a technology company?
- 20 A Not in 2002. But even back then, I had
- 21 shared with her my background, that I had just finished
- 22 my startup and I'm, you know, doing Berkeley, but I was
- 23 going to do the same thing again because this is what I
- 24 want to do. And she told me that this is what also is
- 25 her passion, except that she wanted to do, I think, 0023
- 1 something in healthcare.
- 2 But nothing specific with Theranos at that
- 3 time. And I didn't pay much attention, to be honest,
- 4 also.
- 5 Q To the best of your recollection, was it
- specific to -- to work with blood at the time or it was
- 7 just more generally healthcare was the focus?
- 8 A I think it was -- at that time my
- 9 recollection is generally healthcare.
- 10 Q So when did you first hear about her interest 11 in starting a healthcare company focused on blood
- 12 testing?
- 13 A I think it was later. In 2003, I think we
- 14 met again, and that's when she was doing some work in
- 15 Singapore at that time. I don't recall the details of
- 16 which lab and where, but she was thinking about lab
- 17 testing and blood tests at that time.
- 18 Q And were you in Singapore as well at the
- 19 time?
- 20 A No. I was actually in Asia. I was in

- 21 Thailand. 22 Q I guess when did you first hear kind of that 23 she wanted to start a company? A I think the firm recollection is 2004. In 24 25 two thousand -- so I finished my MBA in 2003, and then 0024 1 right after that, I applied to Stanford for my computer science degree. And so immediately after my graduation from Berkeley, I started studying for my GRE so I can apply to Stanford. 5 And I got into Stanford March of 2004, and that's when I reached out to her, and I said, "Hey, 6 guess what? I'm also going to be joining Stanford." 8 And I believe she was thinking about dropping out at that time, or she may have already dropped out. I 10 don't recall the exact details. And that's the first time I heard about it. 11 12 At the time, had you expressed any interest 13 in joining the company when -- when she was first 14 starting to talk about the company? 15 A No. I -- I didn't express joining interest, 16 but I expressed a very strong interest in what she was 17 diagnostic testing. 18 (b)(6); (b)(7)(C) 19 20
- doing. I thought -- I mean, I had some exposure to 21 22 23 24 25 0025

So I -- I started, you know, digging into this thing, saying, "Why is the system the way it is?" But I didn't think I was going to be able to do anything because it seemed like a complex problem to me back then.

So when I met with her and she said she's doing something in diagnostic, I thought this is a great idea. She should do it, and if you have the 10 11 passion, continue.

(b)(6); (b)(7)(C)

1 2 3

5

7

8

12 And did she say what her goals were in the 13 diagnostic space?

14 Yeah. I mean, she was very ambitious. (b)(6); 15 (b)(6); (b)(7)(C) 16 And we both discussed a lot 17 18 about how our entire healthcare system is focused on disease care. We were focused on catching diseases 19 20 when it's too late and we cannot -- even though most of 21 these diseases can be caught if you just catch them

early, and you can do something about them.

23 So her vision was to try to see if she can 24 change the paradigm from catching the disease too late, 25 not being able to do anything, and shift it to early 0026

1 detection and prevention.

2 So even in 2004, she thought, you know, if we 3 can get the information to the patients, or the physicians, or -- or both in time early on, we can 5 change the healthcare system from, you know, \$4 trillion and continuously going up to empower the individual, empower the patient, give them information 7 so they can take control of their own health. 9

So that was her passion from -- from day one 10 early on.

- 11 Q And did you think that sort of -- that sort 12 of message from her remained consistent from the time you first heard about the company until the time you 13 14 joined?
- 15 Yes, very consistent. Α

17

10

14

- And I guess -- you joined in 2009? 16 O
  - September 1st, 2009. A
- 18 Between that time you first heard about

19 Theranos and the time you joined, I guess what else did you hear about the company?

21 She used to share with me details about 22 diagnostics, small sample. And I was curious, so I was obviously learning on my own. Anytime I would see a 24 news -- in the news about diagnostic testing, I would 25 share it with her, I would point it to her. 0027

1 But she used to -- you know, she was working a lot of long hours, so, you know, we didn't really have much conversations. But, you know, she did share with me the impact a small sample was going to make and 5 how, you know, access, and low prices, and cost, and transparency are just unheard of in healthcare. And obviously, after firsthand experience, I knew that 7 8 already. 9

So it was more of a general conversation that we were having about, you know, trying to solve this problem about watching -- instead of watching people die, maybe we should -- entrepreneurs in technology 12 should come to help and see if we can catch diseases early and provide a better quality of life.

15 Q I guess did she ever invite you to join the 16 company before you -- before you initially joined in 17 2009?

18 A No, not -- I mean, she didn't exactly say 19 that. But we used to think about the tremendous impact 20 software was going to have on the world, and my background is software. And I -- the more I looked at 21 this problem, maybe because, you know, when you have a

hammer, everything looks like a nail, to me, this 24 looked like a software problem, the healthcare. And

25 the more I dug into this, the more I was convinced this 0028 1 is a pure software problem. Of course, there's diagnostics and -- and, you know, other things to that, but software was going to be the key of how this is going to grow. 5 And when I spoke with her -- and my 6 background is machine learning. And we talked about how this data comes in. And why is it that there's so much health data and nobody is doing any data mining on it to see what are the patterns? Can you -- just like 10 Google Maps. You can see a car driving and we can 11 predict, you know, when you're going to get somewhere. 12 Why is that -- from lab results and health diagnostic 13 information, why is it we cannot predict people's 14 health, especially if the markers are available? We 15 talked about some cancer markers which are available in 16 the -- and research that predicted lung cancer 17 years 17 before the lung -- it showed up in the lungs. 18 And breast cancer, obviously, we know there 19 are markers there at least in research. And why is it 20 that we are not broadening it? Maybe, you know, we haven't proven yet that -- conclusively that they can 22 predict something. But if we, you know, engage 23 individuals and they voluntarily said, "You know what? 24 I want to get more testing done because I want to know 25 what's going on with my body. My family history is 0029 1 XYZ," and they provide this data to a company and we can do machine learning on it and start to predict things, I believed then and I believe now it's absolutely possible. Nobody is doing it. And as we 5 dug into this thing, I found out why nobody's doing it. It's a very difficult problem to solve. 6 7 But that's -- as part of the conversation, I 8 started thinking more and more about how can I help you? And I used to talk to her about, you know, think about software this way, think about software this way. 11 And so I was advising her a lot on -- more and more 12 over the years. 13 And in 2009, there was a special project that 14 popped up that was close to my heart, and I thought, 15 yeah, maybe I can contribute more to the company now. 16 So that's when I joined. 17 What was that project? 18 If you recall, in 2009, there was a big 19 outbreak of swine flu, H1N1, and it was killing people. I mean, in Asia, it was a disaster. (b)(6); 20 21 (b)(6); (b)(7)(C) 22 23 24 And people were 25 saying swine flu is going to spread like Spanish flu. 0030

And Theranos at that time was working on a 2 diagnostic test for H1N1. And I thought how cool it 3 would be if you can put these devices near patients where nobody wants to go -- people didn't want to go 5 and get samples from them, but if the device is there, suddenly you can start saving lives, especially kids. 7 And, you know, in developing nations, it was a major problem.

9 So I thought that and then using the data 10 coming in and be able to model it to see where the flu 11 is going to spread. It's possible. This is not, like, 12 Fantasy Land here. That you can actually look at the 13 data and say, "You know, here is a predictive model. 14 It shows that the way H1N1 is spreading, it's going to 15 attack that school next because that kid who came here 16 is going to go back to his family," and so on and so 17 forth.

So all of this data coming into software, the combination of those two, I thought this is a great opportunity for me to contribute. So that was the project.

22 Q In the 2004 to 2009 time period, were you 23 getting updates on -- it sounds like your focus was software, that's what we saw your main contribution 25 was. Was she describing the company's hardware and --0031

1 and sort of micro sample capabilities at the time or 2 was it -- I guess was it more a general discussion at that point? 3

4 A It was a broader discussion. I didn't have the depth of the background to understand diagnostics at that time, and so it was a general discussion. I knew that they were doing finger sticks. I knew because, you know, we had discussions on that. But I 9 didn't understand the hardware. I saw the hardware, 10 but I didn't understand the hardware. I clearly didn't see the box inside out. 11

O What do you mean by the "box"?

13 Sorry, the TSPU. I'm sorry. Α

And by -- by "the TSPU," you mean, like,

15 the --

12

14

17

23

1

18

19

20

21

16 At that time it was TSPU 3.0. Α

And does "TSPU" stand for Theranos Sample --

18 -- Processing Unit, yes. Α

19 The -- did you sign an NDA with Theranos 20 before you joined the company?

21 A No, which is why we were not discussing the 22 specifics of the -- what was going on in the company.

When did you see the TSP unit?

24 I don't recall the exact date, but I think it

25 was before the company -- before I joined the company. 0032

1 O Like what did it -- what did it look like 2 back then?

- 3 It was still a small device. It looked like a microwave oven, like a small coffee machine. So it's 5 about -- actually, it was 14 inches tall, six inches wide, and I think about 12 inches deep, approximately. 7 Q I guess those are pretty precise descriptions of dimensions. Does that -- one thing I'm trying to distinguish is just, you know, your memory at a certain 10 point in time versus what you've come to understand 11 based on --12 A Yeah. 13 0 -- prior events. 14 Is that -- is that kind of what you've come 15 to understand that -- that machine --16 A Yeah. 17 Q -- its size is like based on your work at 18 Theranos? 19 A Yes. Now, I know the size back because --20 back then, I didn't take out the tape and measure it. 21 O Yeah. 22 A But it looked about -- you know, I could see 23 that it looks like a microwave oven, or a small 24 microwave oven, I must say. 25 So you joined the -- the company in September 0033 1 2009? 2 A Yes. 3 What was your role when you joined the 4 company? 5 Yeah. So what happened was: In the summer of 2009 when we started talking about the H1N1 project, I wanted to join. That was also the time when the company was very low on cash. If you recall, August 2009 was also the Great Recession. It was -- turned 10 out to be the bottom of the recession, but at that time 11 things were still nose diving across the -- across the 12 world. 13
- So the company was low on the cash, and -and I knew this mission, what the company was trying to
  do, was paramount. So I offered to help the company.
  And I met with the board members. And I -- long story
  short, I ended up giving a 13-million -- or a 12 or 13
  or 14-million-dollar personal loan. I guaranteed a
  loan to the company. And it was interest free. I
  didn't get any stocks in exchange for that, I didn't

get any warrants. It was a good faith loan.
And so as part of that, I joined the company.
I met with the entire board, and then we decided that
my focus initially was going to be this H1N1 project so
I can add immediate value. But I came initially in the

- 1 title of vice chairman; however, over time, it -- I was
- 2 fully operational and I was working seven days a week
- 3 right off the bat. Just my nature, unfortunately. And
- 4 I was in operation alone.

5 And I think at some point after that, six 6 months later, when I had decided that I'm going to stay 7 here for the long term, and the board said, 8 "Absolutely, you must," they made me the president and 9 COO.

- 10 Q And your -- you had been in this -- in the 11 computer science program at Stanford from the 2004 period to the 2009 period? 12
  - A Yes.

13

16

6 7

- 14 And you decided to leave that program in 15 order to join Theranos?
  - I dropped out. Yes.
- 17 The -- when you first joined the company, I guess, what was your understanding of what its business 18 19 strategy was?
- 20 A When I joined the company, there were 45, 50 21 people in the company. So it was a very small company. 22 It was more about what is the mission and the vision of 23 the company necessarily -- and not necessarily the strategy. I think the strategy was still being formed.
- 25 So I didn't pay much attention to what was the 0035
- 1 strategy. I knew they had a product. It's a diagnostic space, small sample potentially near a patient at some point, and I could kind of visualize and spin my brain to see what could be done with this product. 5
  - So I don't think it was necessarily the strategy that was a reason I came, it was more the vision and the possibility and the potential.
- You mentioned sort of the company had a 9 product. I guess what was its product when you -- when you started? 10
- 11 Yeah. I mean, it was a solution stack.
- 12 There was the sample processing unit, then there were
- some components that -- consumables, cartridges that
- 14 went into the sample processing unit that contained the 15 reagents and a bunch of other chemistry. The company
  - also used to have a small sample collection-type device
- 17 to be able to get the blood from the finger. And then
- 18 there was a lot of software on the back end.
- 19 One of the unique things about what Theranos 20 came up with, and I think is absolutely breakthrough, is that unlike other traditional diagnostic devices
- where you have a device in the clinical lab where, you
- know, somebody is watching over it and somebody QC's
- 24 it, somebody makes sure everything is good, or on the
- 25 other hand, you have the glucose meters, the 0036
- 1 CLIA-waived devices which are in the field, but if you
- put it in your home, there's no oversight. Right? I
- mean, you can go buy it from CVS and bring it home and
- leave it in the car for a day, and the strips may have
- 5 expired, but when you run them, the machine is not
- going to tell you your result is wrong. Right? So

there was no oversight. 8 One of the breakthroughs that Theranos came 9 up with was: The use of the Cloud and the -- and the software. So Theranos's TSPUs were -- were always connected to the Cloud. So what happened was: When you insert a consumable, the cartridge, in the device, 13 it would send the message to the Cloud saying, "Hey, somebody has inserted this bar code -- this cartridge. What do you want me to do?" And the Cloud will tell the 15 16 device what to do. 17 And the cartridge in most cases, not always, 18 but most cases will always also include the quality and the calibration controls with known values. So we can run them first and see if the quality of the cartridge 21 is good, nothing bad happened. Right? 22 So -- so it was a pretty complicated stack. 23 Then obviously, there were chemists in the lab who were making the chemistry. Then there were people who were 25 looking at this thing called the binders. It's the 0037 1 antibodies that are used in -- when you make chemicals. 2 So it was a pretty broad, complicated kind of 3 system in place already. 4 And sort of between the -- I guess the chemistry, hardware, and software mix that you 5 6 described there, what was the employee split roughly? 7 There was also manufacturing, so -- and 8 hardware manufacturing and hardware design. 9 I think the software was the smallest piece at that time. My recollection is maybe five people in software. And I'm -- this is basically a long time ago, so my numbers may be significantly wrong. But my recollection is: Five in software, I think maybe 20 in 14 chemistry, 15 to 20, and the rest were in -- mostly in 15 hardware, whether they're sampling hardware, 16 manufacturing, designing hardware, and then a few were 17 in administration. Administration was pretty light. 18 You mentioned guaranteeing a loan for the 19 company when you joined. Do you remember which 20 institution that it was guaranteed with? Yes. (b)(6); (b)(7)(C) 21 (b)(6); (b)(7)(C) And the easiest way we thought was to -- for 22 the company to open an account (b)(6); (b)(7)(C) and me to guarantee a loan or line of credit to the company. So 25 I used my personal net worth to guarantee that line of 0038 1 credit and the company could draw against it. 2 Did -- did the company pay back its line of 3 credit? 4 A At some point, yeah, about a year later. 5 Q Do you know how it raised funds to --Yeah. We raised I think what was called 6 A 7 Series C-1 in 2010, 2011. 8 Did you participate in those Series C-1

```
discussions?
10
       Α
          I did.
11
           In any of those discussions with potential
12 C-1 investors, did you disclose this line of credit the
13 company had --
14
       A Yes. As a matter of fact, at least one large
15 investor was also on our board, which is Blue Cross
16 Blue Shield. That was a gentleman called (b)(6); (b)(7)(C)
17 (b)(6), (b)(7)(C) He was on our board. He was also the -- I
18 think (b)(6); (b)(7)(C)
                                      at the Blue Cross
19
    Blue Shield Venture Partners.
20
           Who was on Theranos's board when you joined?
21
           (b)(6); (b)(7)(C)
                        that I just mentioned, Elizabeth
22 Holmes, Don Lucas who was the chairman of the board at
   that time: (b)(6); (b)(7)(C)
23
   (b)(6); (b)(7)(C)
24
25
          I guess when did the board sort of shift in
0039
   composition? Was it -- was it a gradual process or was
1
2
   it --
3
          I think it happened over time between --
   again, I'm forgetting the precise dates, but I would
5
   say between 2012ish, it started changing.
          From that time you first joined to that 2012
6
7
   time period, what was the board's role at Theranos?
   Was it a fiduciary board? What level of oversight did
9
   it provide the company?
10
          MR. COOPERSMITH: If you know what that
11
   means. It's a legal term, "fiduciary."
12
          THE WITNESS: Yeah. Actually, I was going to
13
   ask that. I don't know what that means. But I can
14 tell you what our engagement with the board was. I
15
    didn't engage with the board that much. We had
    quarterly meetings or frequent meetings. I don't know
17 if they were every quarter or every four months, but we
18 had three- or four-times-a-year meetings. There were
    some board members who were more engaged. (b)(6); (b)(7)(C)
19
20 (b)(6); (b)(7)(C)
              was more engaged in the chemistry and R&D
21
    side, Don Lucas was extremely engaged, and at least
22
    Elizabeth used to seem quite a bit. But that's kind of
23
    what I remember.
24
          BY MR. KOLHATKAR:
25
           When did you join Theranos's board?
0040
1
          Right -- right away. When I joined the
   company, I was on the board. Like I mentioned, I had
   given a significant loan to the company, and in
   exchange -- I didn't ask for any dilution, didn't --
   didn't get any equity. They gave me some options, but
   it was a very small number. But I requested that I be
   on the board. I didn't demand it. Certainly, I could
   have demanded, actually, one or more board seats. Then
9
   they interviewed -- all -- all the board members
10 interviewed me, and as part of that, I joined the
```

11 board. 12 Throughout -- throughout your time at 13 Theranos, was -- was Elizabeth Holmes on the board? 14 A Yes. 15 Q And as -- was she always a majority 16 shareholder during your time there? 17 A No. She was a -- majority is anything 18 greater than 50 percent. No. Q I guess, did she have majority of the voting 19 20 power throughout the time you were there? 21 A No. No, she did not. 22 What -- sort of what was her power -- her 23 voting power when you started with the company? 24 She was just one member on the board, and I 25 think she may have had access to one more board seat 0041 1 that she could fill if she wanted to. But that was it. She didn't have the majority power or majority vote is 3 what I remember. Q Did that change at any point over time? 4 5 It changed over time, yes. 6 What -- what do you remember changing? I think around twenty -- 2013 maybe, 2012, I don't remember exact dates. 9 How did her role change with respect to the 10 board at that time? A Well, I think over time, my recollection is: 11 12 She got more options as part of her role and that 13 increased her shares above 50 percent. And then she 14 had a long conversation with different board members 15 about, you know, keeping the company private for long 16 term or having more control over the decisions, and I 17 think as part of that, she got more -- more power and 18 more control of the -- of the company. 19 You just mentioned kind of her desire to keep 20 the company private. Was that always the case from 21 the -- from the time you first heard about the company? 22 A You know, she didn't -- I don't remember if 23 she used the word "private." I think she used the 24 words, "I don't want to go IPO anytime soon." The 25 reason is -- this is later -- I mean, over time, 0042 1 obviously, there were some times where the board would talk about IPO, but it was not a serious discussion. But her desire always was: Look, in order for us to do what we want to do, we may have to, you know, stay private and -- and -- because we -- our goals are ten-year goals. You know, some goals may not happen for 15 years, and there are not a lot of investors in the public market who may understand that. 9 So she had that thought in her mind that in 10 order to achieve the goals -- long-term goals, in the short term and the long -- the medium term, you know,

- 13 we may not be making money, but in the long term, if we
- 14 want to shift this discussion from disease to
- 15 prevention, it required a longer-term commitment. So 16 yes.
- 17 Q And in your role as president and COO, who 18 did you report to at Theranos?
- 19 A I believe I reported to her officially.
- 20 Did that change at any point in time?
- 21 I don't recall. I don't think so, actually.
- 22 What were your responsibilities as -- as 23 president and COO?
- 24 A It changed over time. As I'm sure you 25 already know, when you're building a technology 0043
- 1 company, things move really, really fast. So it was more whatever came my way first, I would tackle if I 3 had the bandwidth.

4 But right from the start, I owned all the 5 software. I owned all the electronics because that's my background. I made direct decisions there. I owned all the IT. Like I said, there were five people, so 7 8 not much to own.

But, you know, I started putting my vision in 10 place about what this software is going to do over the 11 next ten years with the company. So software, IT 12 electronics fell under me.

- 13 Q Sorry, if I can interrupt you there. What do 14 you mean by "electronics"?
- As part of -- of our automation and a lot of 15 16 the work that we were doing, whether in robotics or
- 17 TSPUs, anywhere, required electronic boards, kind of 18 like motherboards in the computer. At Theranos, we
- 19 used to design all of our boards -- pretty much all of
- 20 our boards, which is a pretty significant undertaking.
- 21 But we designed all the boards. A lot of 22 the -- even the chips, we kind of either designed it or we picked custom chips that fit our needs and then
- designed more circuits around it. So all of that fell
- 25 under me, that team.

## 0044

7

- 1 Also the third team was -- again, it was the software, but it's the -- it's called embedded systems.
- That's the operating system that runs on the chip itself, the realtime OS. That also fell under me. So
- I started, you know, making all the decisions there 6 right away.
  - And then in addition to that, I was
- 8 involved -- because, you know, five -- 15 -- 45, 50
- people, a small company, we needed to grow the company.
- 10 So recruiting was a major part. I spent a very
- 11 significant amount of my life recruiting at Theranos,
- 12 probably thousands of interviews.
- 13 And after I joined, I don't think, you know,
- 14 anybody maybe except for five or ten people who were

```
15 recruited were actually hired unless I met with them
16 and I had interviewed them and recruited them. So I
17
   spent a lot of time doing that. I started focusing on
18 building the HR organization, even though it was a
19 lower priority initially because the team was small,
20
   and I also spent a lot of time on field activities.
21
          So I mentioned earlier the H1N1 project. I
22 joined Theranos on September 1st, and we had this H1N1
    assay done -- or almost done, but we didn't have any
    samples because getting swine flu samples was not easy.
25 And nobody wanted to go to Asia because everybody was
0045
1
   sick of dying -- afraid of dying. So I got on the
   plane and I went to Asia, I went to Thailand, and I
   started sourcing places where I could find samples.
   And -- and I did that.
5
         And so again, that was not -- that was
6
   something that was not in the job description, but --
7
   but I was on that project for -- for some time looking
   for samples. I was actually running some assays and
   R&D. When there was a shortage of people on weekends
10
   and we needed to run some samples, then I would say,
11
    "Okay. Train me. I'll do it." And I did that.
12
       O Well, I -- what does that mean, you were
13 running assays and --
14
       A Basically what it means -- that means is:
15
    When the samples come in, you need to aliquot samples
   on a -- either a tray or a cartridge, mix reagents,
17
   wash buffers, pipette stuff around. You know,
18
   basically chemistry lab -- chem lab kind of stuff.
19
         And you learned how to do all of that?
20
       A Yes.
21
       Q Okay.
22
         Life in the startup. Right?
23
           And you mentioned a job description in one of
24 your answers. Did you ever get a formal job
25 description at your time at the company?
0046
1
      A No. I don't -- I don't think there is job
2
   description for a president and a CO of -- a COO of a
3
   startup. You do whatever it takes.
4
          And so you -- you mentioned that over time,
5
   sort of your responsibilities grew. Can you -- can you
6
   briefly explain how that --
7
      A Yeah.
8
      O
          -- what got added to your portfolio?
9
          Sure. So after I was doing this project, we
   started also spending -- I started spending more time
    on the hardware side to understand the supply chain,
   you know. Because the machine had a CPU and a
   motherboard, I wanted to see what are the decisions
14
    being made there. By "machine," I mean the TSPU, sorry,
```

So I spent a lot of time on hardware and

15 3.0. 16

```
learned how the hardware works, the supply chain for
18 the hardware, supply chain for the reagents. I learned
19
   that there are many, many chemistries for which there's
20 just one supplier, some guy in Ireland who found a way
21 to grow some antibodies using his sheep. Seriously.
22
    And -- and then you need to secure the supply chain.
23 Right?
24
          So I spent -- I learned that part of the
25 business. And then 2010 March, February time frame, I
0047
   was also spending time on the road, me and Elizabeth
1
   Holmes, meeting with the retail pharmacy businesses,
   and as that evolved, I took the leadership role there
   in negotiations and contracts. So -- and then after
   that -- I mean, I can -- there was a lot of other
   things that happened after that.
6
      Q Sure. I guess by "retail pharmacies," do you
7
8
   mean Walgreens --
9
          Walgreens.
      A
10
       O -- primarily?
11
       A Yes.
12
          What about the Safeway?
13
          Yes. Yeah. Same thing on Safeway. I
    spent -- I, you know, spent time with Safeway. Even
15 though initially, I would say, the first year, year and
16 a half, Elizabeth spent a lot more time on Safeway
17 (b)(6); (b)(7)(C)
18 (b)(6); (b)(7)(C)
                           Safeway at that time. He was
    obsessed with this project, with Theranos' project,
19
20 building a lab inside Safeway.
21
          His reason was that Safeway one day is going
22 to be a healthcare company, not a grocery. Because he
    saw that giant in Seattle, Amazon, entering this space,
   so he said, "We've got to be in the healthcare
25 business." And he was very clear that Safeway wants to
0048
1 be a healthcare company, and a diagnostics lab testing
   has to be a key part of that.
3
         So she spent a lot of time on Safeway
4
   initially, but ultimately, I took that over also.
5
      Q Do you -- I mean, I guess -- so would you say
   you took over responsibility for the Safeway
   relationship more so (b)(6); (b)(7)(C)
7
8
      A
          Yeah.
9
      Q -- Safeway?
10
          Yes. Pretty much right after that.
11
           And Walgreens, was it sort of similar, both
12 you and Ms. Holmes were involved in the start and then
13
   you took more of a lead after --
14
          Yes, it was similar. However, in Walgreens'
15 case, I was deep into Walgreens from the start. So
    unlike Safeway where she was spending more time at
17
    Safeway, with Walgreens, I was spending at least as
```

18 much time as her on Walgreens from the start.

19 What about Theranos's relationships with 20 pharmaceutical companies, what were your 21 responsibilities in that space? 22 Not much. A lot of the work that was done 23 was done before I came. I did make a couple of trips to meet GSK in Europe, and there was another --Sanofi-Aventis in London, we had met with them. But, 0049 1 you know, I didn't understand that business at that time. I was too new. This is early part in 2009. I was just kind of sitting there learning to see how things are progressing. 5 And did your responsibility for Theranos's relationships with pharmaceutical companies change over 6 7 time or --8 A No, they didn't. 9 Was Elizabeth Holmes primarily responsible Q 10 for those relationships? 11 A Yes. 12 O What about with the Department of Defense, 13 what were your responsibilities there? 14 I would say similar to pharmaceutical 15 companies. Most of the work with DOD or the defense department was done before I joined the company, so I 17 didn't have the background. I may have participated 18 in, you know, a few meetings when somebody came because 19 we were such a small company that Elizabeth Holmes just sitting by herself sometimes was, you know, not 21 appropriate. I wanted to at least be taking notes or, 22 you know, being there. 23 And so in some DOD meetings, I -- I sat in, 24 but again, I didn't play a bigger role there of 25 negotiating, or dealing, or even understanding the 0050 1 projects. 2 What were your responsibilities with respect 3 to the company's financials when you -- early on in that president and COO role? 5 At that time we had a controller in the company. (b)(6); (b)(7)(C) So she was in 6 charge of all the financials. Initially, I didn't spend any time on financials. There was too much to do and there's not much finance -- finances. I had loaned 10 the -- the money to the company, so I knew about the 11 finances. 12 So I didn't spend too much time there. Even 13 over time, I would -- I used to get updates from (b)(6): about what's the cash position? I mean, that's kind of 15 where my eyes were, how much cash we had. But I didn't 16 spend much time in financials until then. 17 Around 2010 when we started engaging with the 18 retail pharmacies, Safeway and Walgreens, I started 19 building a financial model with the help initially from 20 Safeway and Walgreens that I owned and -- until I left

21 the company. 22 Q By saying you owned, you mean you were the 23 person responsible for the company's financial 24 projections as you just described? 25 Financial model. 0051 1 Q Financial model. 2 Α Yes. 3 O And I -- what was the distinction in your -in your mind? 5 Well, I can tell you what I thought about the 6 financial model. It was a planning tool that I was using to see the potential of the business. And also, it was -- it was basically a spreadsheet, Excel spreadsheet literally, and that included a lot of the 10 learnings that I was doing from -- about the industry. 11 You know, how many patients typically come at Quest 12 Diagnostics. That's another lab company in the field. Or LabCorp, what's going to be the R&D burn expenses, 14 and how many patients you can get in a ceratin 15 location, how many sites you can have. 16 So as those assumptions came in, I would just 17 put all those data into this model and see how it 18 changes the model over time. So I was using this as a planning tool, and some of the tabs in the model would 20 spit out as the end result of, you know, changing any 21 assumptions in the model. 22 When you started with the company in that 23 sort of early, you know, say, 2010 to 2012 time period, 24 did you share financial documents with the board at all 25 or --0052 1 I mean, I -- I think 2010 to '12, we would show the balance sheet and -- but it was part of the model. So I would often show the model to the board pretty much almost every board meeting just to show 5 them how it is evolving. And so that was always almost 6 every part of a board meeting. So I would say yes. 7 Who created the balance sheet? Q 8 It came from a software, I believe, that we 9 had in the company called QAD. And it -- I used to get it from (b)(6); (b)(7)(C) but I think she got it from that 11 software automatically generated. 12 You -- you wouldn't personally go into the 13 QAD and -- and work on those? 14 A No. I didn't -- I've never have logged into 15 QAD. It's not an easy software to use. 16 Q I believe you. 17 What about with respect to the company's 18 media or press strategy, were you responsible for that 19 when you -- when you started -- joined the company? 20 A No.

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22

O

A

No.

Did that change over time?

- 23 Who was responsible for the company's media 24 strategy?
- 25 A You know, I don't think we had anybody. We 0053
- 1 were both engineers, you know. Elizabeth Holmes is a
- chemical engineer and I was a software guy. So neither
- of us had media or press background. In 2012 and 2013,
- we had hired a consulting firm called Chiat/Day. They
- are a marketing and PR firm. They are not, like, a
- media/press kind of firm. I learned the distinction
- 7 later. I didn't know -- I thought it was all the same.
  - What is the distinction?
- 9 A The marketing and PR guys are -- they create
- your marketing collateral and how to get -- get the
- message across. And the PR -- and the media guys
- actually literally work with the journalists and the
- 13 reporters, and they say -- tell you which ad to run in
- 14 which paper. The marketing guys will create the ad for
- you, but then they don't know what to do with it. And
- 16 then the media experts will say, "No, don't run it in
- 17 this magazine, run it here because it's going to have a
- 18 greater impact." That's kind of my loose understanding
- 19 of it.

- 20 Like I said, I -- it's -- it was not
- 21 interesting to me, that whole area of business, and I
- didn't have the time, so I didn't spend much time
- 23 there.
- 24 What about with respect to investor
- 25 communications, what were your responsibilities there? 0054
- 1 A So there -- I think there are two pieces for
- that. One was: The existing investors mostly
- 3 interfaced with Elizabeth, but if they had a question
  - which was about the model or anything else, they would
- 5 reach out to me once in a while. But mostly, the
- interaction with the investors was with Elizabeth early 6
- 7
- 8 Once we got into 2013 and beyond, there were
- a few investors who interfaced with me more. PFM is
- one example. And then in 2014 and '15, as we met with
- 11 any investor, I would always be in the meeting. So
- 12 before the investor invested, I would always be in the
- 13 meeting. In most cases, to answer their questions, you
- 14 know, they had, but I was always in the meeting.
- 15 Q At some point did you come to supervise the 16 development of the TSPU itself?
- 17 Not officially. But I was so deeply engaged
- 18 with that -- I didn't do the R&D part of TSPU. That
- was something that was not my expertise. But I was
- engaged with the TSPU's timeline, project management,
- 21 resources, what is needed where, and understood it
- 22 fairly -- reasonably well enough to be able to at least
- understand in a meeting what people were talking about.
- 24 I would not be able to set the direction of the TSPU in

25 the future, but what was being done today, I could 0055

1 understand and manage.

- What about with respect to Theranos's other 2 3 sort of hardware development, like the creation of the 4 nanotainer, did you -- did you supervise that process? 5
  - No, I didn't supervise that.
- 6 Who did? Q

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You know, there was no one -- the equation was very complicated. So unlike a software module or, you know, a bottle of water where somebody can own it, what Theranos was doing was so tightly integrated and so complicated that I don't think it was possible for 11 12 one person to supervise it.

13 So a lot of times when we did meetings on 14 nanotainers or CTNs, like capillary tube nanotainers, 15 the old device, or the TSPUs, or even the chemistry, or 16 in some cases software, we would also have multiple 17 people in the room. So it would be, for sure, 18 Elizabeth Holmes, for sure, myself -- myself. Now, 19 obviously, there were meetings where we were not 20 available, but in general, we would be in the meeting.

21 And there would be other people with 22 expertise. And the reason was: Anytime we made a decision that was a dumb decision, somebody who is an expert in the field would be able to say, "You know, I 25 don't understand the whole big picture, but that piece 0056

is not going to fit there." Right? 1

So it was more of a collaborative decision-making environment. Ultimately, on many things, either I would make a decision or Elizabeth would make a decision. I mean, there's always one decisionmaker. But there was not a supervisor. It was not like a hierarchy where, you know, people reported a certain way. It was a very complicated product as hopefully you'll -- you have developed some 10 appreciation that it was not possible for one person to 11 supervise things.

O I guess, overall it sounds like you had a 13 large number of responsibilities at the company.

How -- how would you describe Ms. Holmes's 15 responsibilities as compared to yours?

Yeah. So, you know, she is a -- in my 16 17 opinion, a very brilliant inventor. So a lot of the -the meetings that we had on product, future of the 18 product, detection systems, you know, all of the things 20 that run in the device, even things that -- on 21 software, like what kind of things we can be putting in 22 the software, she had just amazing ideas.

23 So she spent a lot of time with engineers and scientists kind of picking their brain, discussing with 25 them and -- and figuring out the strategy for the 0057

product's -- the technology for the next, you know, 2 five years, ten years. And so that's just kind of her 3 expertise.

O Were there any areas of the company that 5 were -- other than the ones you've sort of described in terms of, you know, the early stage -- the early pharmaceutical relationships and DOD, any other areas where she was more familiar with the company than you 9 were?

10 I think over time, 2014 and '15, I was not A 11 spending as much time on the media and PR piece, so I would say, you know, she was probably more exposed. 13 I'm not saying that out of firsthand knowledge. I'm 14 just guessing that she was probably more exposed. But 15 I don't think there are too many areas.

## BY MS. CHAN:

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Who was responsible for the company's 18 strategy with respect to hospitals?

19 A I think it was mutual, it was collaborative. 20 Kind of as we learned, we would discuss. And the

landscape was also shifting. And because of the

22 ObamaCare passage, the Accountable Care Organizations

became very interesting for us because these people are

on the hook if they don't save money. Unfortunately,

25 in our healthcare system, as we learned, nobody really 0058

1 cares about cost unlike a technology company where you 2 come up with a cool product and it's cheap, people are all over it. In -- in healthcare, not the case. If you don't increase the cost of healthcare, it seems 5 like people are not interested.

So as -- but accountable care was a good, positive development because these were hospital systems who were going to the government and saying, 9 "Give us a fixed amount, dollar amount and we'll manage 10 these patients for you." And kind of the good old days 11 where doctors were responsible for keeping you healthy.

12 And that was the thought behind the ACOs. So 13 when that happened, we thought, hey, this is a great place for us to showcase low cost, better access, 15 transparency, convenience. Patients like this. So 16 that's -- it kind of evolved over time, but both of us 17 were engaged in that.

18 So with respect to managing and negotiating 19 those relationships, you think you were equally 20 involved in --

A Yeah. I mean, we --

-- those discussions?

We didn't spend much time on those. So we --

24 I would say yes. I mean, we were -- I made

25 presentations and I met a few people by myself once in 0059

a while, but mostly because the topics were so

2 technical, they were talking about chemistry, and

- biology, and -- and medical stuff, that was her -- her forte. She knew that really, really well. So I would 5 say we were both complementing each other in those 6 meetings. 7 O Is your answer the same with respect to
- 8 discussions with physicians' offices? Were you both responsible for that aspect of the business?
- 10 Well, if the physicians' offices were part of 11 the hospital network, the health systems, then the 12 answer is yes. But if the physicians' offices were 13 not, then I would say no. Those are more one-on-one 14 kind of sales, or negotiations, or deals, and we had a 15 sales team in Arizona that was doing that.
  - Who was overseeing that team?
    - A I was.
- 18 And who was -- I guess who would be the head 19 of the sales team?
- 20 Yeah. We had a person in Arizona. 21 (b)(6); (b)(7)(C) 22 23

## BY MR. KOLHATKAR:

- You mentioned you had a big role in 25 Theranos's hiring of employees.
- 0060

24

8

16

- 1 A Yeah.
- 2 Did that go down to sort of the phlebotomist Q
- 3 level?
- 4 A Yes.
- 5 O You were involved in hiring all those 6 individuals?
- 7 Α Even the security guards.
  - Why was that? O
- 9 Well, I mean, there are multiple reasons.
- 10 I'll give you -- try to give you a short answer. When
- I was working at Microsoft -- I was -- I was there for
- some time -- I heard (b)(6); (b)(7)(C) say many times, "The
- 13 most important thing a manager does is recruiting," and
- 14 I believe that. And there's a famous quote by Peter
- 15 Drucker that says, "Culture eats strategy for
- 16 breakfast." The point is: Culture of a company is
- 17 infinitely more important than strategy, and I believe
- 18 that too. And the culture of the company comes from
- 19 leadership, leading by example, and the kind of people
- 20 you hire.
- 21 And so I was absolutely obsessed with making 22 sure we hired the right people. And what was happening
- was: A lot of the times, our managers or team leads,
- 24 because they really needed warm bodies to help them get
- 25 the project moving, they would hire somebody that --0061
- 1 that I knew they would regret six months down the road
- because they may not fit in the team. And they would
- tell me that. After I said no to that person, they'd
- say, "You know, you're right. I shouldn't have hired

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5
   that person."
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         And so I started making sure that -- I
7
   clearly didn't have the technical background to
   interview every single person, but I have done hundreds
   of interviews in my life, and here at Theranos I did
10 thousands. I wanted to make sure these people are
11
    coming for the right reasons and they have the stamina
12 to work with us for the long run. We didn't want,
13 like, tourists who just wanted some, you know, name on
14 their resume and then move on after 12 months. We
15 wanted people who were committed to the mission of the
16 company, to the cause that required a ton of hard work.
17
   And -- and I was able to sense that. And when I met
18 with them, I would ask people why are they coming here
19
   and -- and direct questions.
20
          The other reason is: I -- is: Also, I
21 learned a lot from interviews. I interviewed a ton of
   lab directors, I interviewed phlebotomists, and I got
23 to find out how other labs work. Because even if I
24 didn't like somebody, I would still ask them, "So what
25 do you like about your job?" "What you don't like about
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1
   your job?" And, you know, you learned a lot from people
   during interviews, especially when they're thinking
   about leaving their company, and so they tell you a
3
4
   lot.
5
          What was the culture that you were trying to
6
   create at Theranos?
      A I mean, it's difficult to describe, but I
   think the most important attributes were people who
   loved doing what they were doing. It was really
10 important that you hire a chemist that loved chemistry,
   not that I'm a chemist now, but I really want to be a
12
   lawyer six months down the road, then, you know, we
13
   should hire them as lawyers.
14
          So it was important that you hire people who
15 love -- who have a passion for what they're doing
   because they will work hard at it. You don't have to
17
   micromanage them because they just love doing what
18
   they're doing. We liked people who obviously had good
19
   work ethic because we worked really, really hard, and
20
   so that was really important.
21
          And I think the other things were people who
22 were humble. Because we were doing such a complicated
   project that if you hired somebody in software who
24 thought, you know, that person was a genius, you know,
25 you're going to fumble big time. You will not be able
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1
   to get along with people who are not geniuses in
   software, but they are geniuses in biology, or
3
   chemistry, or bioinformatics, or mechanics.
4
         So it was important that you hire people who
   are team players, (b)(6); (b)(7)(C)
5
                                          you know,
   like, flashy people. So -- and we were a conservative
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- company, we wanted conservative people. And so, you know, that was kind of the culture. Q Do you think Ms. Holmes shared that vision 10 of -- of what Theranos's culture should be? 11 A Absolutely. This was -- came from her 12 primarily. 13 I guess how did she communicate that to you? 14 Well, we used to talk about -- she 15 interviewed everybody also. At some point, I think in 16 2015, I said, "Look, you need to stop doing this 17 because I am interviewing people, and you are so busy, 18 it's difficult to find you sometimes for an interview 19 when a candidate is waiting there." 20 And she goes, "Yeah, yeah, I think my 21 bandwidth is -- no longer allows me to interview 22 everybody." 23 So she not only communicated this to me, we 24 were both living this culture. I mean, there were a 25 ton of weekends -- we were always there -- almost 0064 always in the office on weekends. And Saturdays and 1 2 Sundays was my interview jam. I mean, I would interview 15, 20 people sometimes on weekends, Saturdays and Sundays. 5 And -- and many times, I would interview 6 people after 8:00 p.m. because I was busy throughout 7 the day, and that was a fairly good -- good barometer for us, it turns out in the long term, because the candidates who are interested in you after 8:00 p.m. 10 and come on weekends, that's a good sign they have good 11 work ethic to begin with. 12 So -- so -- and she was there. She was there 13 every weekend we were interviewing. So it was a 14 constant dialogue. And we would come out from an 15 interview and say, "I didn't like this person." 16 I'd say, "Well, I really liked this person." 17 "Well, why did you like it?" 18 And I'd say, "Here's the reasons." And this
- 19 is how the -- you know, our understanding of the whole 20 thing. 21 "Oh, yeah, that makes sense. I picked up

22 that too." 23 So culture is one of those things that evolves over time. The other reason why it was so 25 critical for us to interview ourselves is, because we 0065

- 1 want our -- wanted our managers to do the same thing and -- otherwise, the managers will delegate it to their managers, and soon you have a lot of people that
- nobody has really interviewed well. So it was
- 5 mandatory that if you wanted to be a team lead, you
- have to interview in the company. 6

7 And then we made it mandatory for employees 8 that if you are a scientist, you're working at the

company, are you going to be able to interview five or 10 ten percent of your time? So we wanted to make sure 11 everybody was part of that.

12 And then people took responsibility. If 13 somebody doesn't -- didn't work out, I didn't have to 14 be the person trying to get the -- fire somebody. The 15 manager is responsible.

O I -- I guess how many managers, you know, 17 would you say reported to you at any given point in 18 time? I assume it grew over time, but --

16

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19 A Yeah, it grew over time. But like I said, 20 the organization was literally like a -- you know, a Rubik's Cube. So there were a lot of people reporting 22 to me, but people knew that, you know, we were running so fast. So even if somebody was reporting to 24 Elizabeth, you know, they were kind of reporting to me 25 because they -- if I ask something, I get the answers. 0066

1 So there were a lot of people reporting to me.

Q What kind of positions would you describe as 3 managers as Theranos?

4 A I would say team leads and above. So there 5 who -- whose official title was not necessarily manager. Sometimes senior scientists were managing, you know, four or five other scientists, but they were managing them. So we didn't give them the official manager title until we saw and they proved that they 10 actually are a good manager, but I would still consider 11 them as managers.

12 Did Ms. Holmes ever express any goals to you 13 about how she wanted the company to be valued 14 externally?

15 That was not on our radar. We were -- our 16 focus was: We're going to build the company for the 17 long run. She wanted to build something for the next 18 20, 30 years, 40 years. She wanted to run this for the 19 rest of her life. And so this -- this question about 20 how others value was -- I mean, it was very low on our 21 priority.

22 Q Did she ever describe that she wanted to have 23 a -- to lead a billion-dollar company or something like 24 that?

25 A I think it was more as a metaphor that she 0067

wants to build a company that has that kind of impact.

But I don't think she personally said, "I want a

billion dollars." That's not what drove her at all, and

certainly it didn't drive me. I would not have stayed

at the company or even worked for a day there if what 5

was driving the CEO or the founder was: "I want to be

7 a billionaire." I would -- that's -- life is too short

8 to waste like that.

9 And you personally didn't have any financial 10 need to do that; is that --

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11
          No, no. I was happily enjoying my life and
12 enjoying the beach, and then I came and worked seven
   days a week for seven years. I used to joke I'm a
13
14 seven-year slave.
15
       Q I'll hand you what I'm going to mark as
16 Exhibit 236. And just for the record, Exhibit 236 is
17
    a -- a document Bates-stamped Balwani-2870.
18
                   (SEC Exhibit No. 236 was
19
                   marked for identification.)
20
          BY MR. KOLHATKAR:
21
       Q Do --
22
       A (Witness reviewing document.) Uh-huh.
23
       O Do you recognize Exhibit 236?
24
       A It's an e-mail from myself to Ms. Holmes and
25 her response.
0068
      Q And you -- and you see that it looks
1
   initially like you forwarded her an announcement of --
   relating to Facebook's acquisition of Instagram?
4
         Yes.
5
          And it looks like you say, "very annowing."
   Do you mean annoying?
6
7
      A
          Yes.
8
          "Why are we not there yet"?
      O
9
      A Uh-huh. Yes.
10
          What did you mean by "Why are we not there
       Q
11
   yet"?
12
       A Yes. When we were under the radar, it was
   excruciatingly painful to recruit people, to bring
13
   people on board. And we wanted to grow faster. We
15 wanted to add more engineers, more scientists, more
16 computer scientists. Especially in computer science, I
17 was struggling hiring people.
18
          So the point I was getting across here from
19 my -- and this is the discretion we always have is:
20 How much people should know about who we are and what
21 we are doing. This is in 2012 still. And we were
22 under this radar on the stealth mode. Had we hired
23 more people faster, had people known that they, you
24 know, this is a company. They have a Walgreens
25 contract. They have a Safeway contract, I think our
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   recruiting would have been easier.
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2
         And this is what I was referring to, is that
   we have -- when we recruit people -- when you call
   people, nobody has even heard about us, so it was
5
   impossible to hire people.
      O I guess, so what did -- what did Facebook's
6
   acquisition of -- of Instagram have to do with, I
7
8
   guess, being under the radar or not?
      A Well, that's because Instagram was not doing,
   in our opinion, anything as significant or important as
    what we were doing, and everybody was talking about
12 Instagram as if it's the greatest thing ever. And my
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- point was: People should be focusing on us so we could 14 recruit more people. 15 Q When -- her response to you is: "I had the 16 same reaction yesterday." 17 What did you understand her to mean? 18 Well, that was the constant conversation. 19 The -- the reason I know or I feel that that was the 20 case here is: Every time you saw how difficult it was 21 for us to get traction in recruiting, and especially in 22 Silicon Valley, this was her reaction. That these companies who are not doing anything really close to 24 what we are trying to do, the impact we are making, you 25 know, they get all the buzz. 0070 1 And because of that, I mean, we -- I used to interview software developers and even reaching out to them, they would say, "Oh, no, no, I got an offer from 3 4 Instagram." 5 And I used to say, "Instagram is not going to get you the kind of passion and satisfaction in life that we will." 7 8 But he said, "So what are you guys doing?" 9 And we couldn't tell him. Q So why was the company in stealth mode back 10 11 in this 2012 time period? A You know, we -- Theranos is in a -- in a --12 13 in a brutally cutthroat industry from many directions. 14 Had Theranos succeeded in laboratory services, we would 15 have shaved off billions of dollars of revenue from our competitors, basically -- primarily that they make from Medicare and Medicaid. They overcharge Medicare and 17 18 Medicaid. I don't know if you guys know that. 19 So we knew we were going to get attacked in 20 the marketplace as soon as we launched, and we wanted 21 as much headroom as possible, as much runway before we 22 launched. Stay under the radar. Don't alert people 23 what we are doing. 24 The other thing is: A lot of the things we 25 were doing were supercool ideas, how we're going to 0071 1 execute not just the software, hardware, data, and so 2 on and so forth, but our business strategy. The fact that we picked Walgreens and Safeway, and this is how we're going to grow the business, we didn't want anybody to know until we're out there, until we no longer can hide it. So that was the primary reason. 6 7 And in your mind at the time, what -- what
- 9 achieve in order to be able to make that transition
  10 from -- from stealth mode to -- to being around in the
  11 marketplace?
  12 A You know, if what -- if it was my -- if I had
  13 control over it, we would still be in stealth mode.
  14 The reason is: I wanted us to capture a couple of

did -- what sort of objectives did Theranos need to

- 15 markets, like, good, decent market share. You know,
- 16 launch in Arizona, maybe Pennsylvania, and then when we
- 17 launch in California is when people would get to know
- 18 us more. Until then, ideally, people should have just
- 19 assumed we were just another lab. They -- I -- I
- 20 didn't want people to know the incredible software that
- 21 was behind the company, and that, we wanted to protect.
- 22 Because, again, a discussion that Elizabeth
- 23 and I used to have is -- and we've had this with many
- 24 people is: Our main competitors were not LabCorp and
- 25 Quest. They were the competitors in the short and 0072
- 1 medium term, but our long-term competitors were Google2 and Amazon.
- 3 And as a matter of fact, that fear came true
- 4 in 2013 when we launched and we came out. Since then,
- 5 Google has built this life sciences company and they're
- 6 spending a billion bucks a year on that. And I
- 7 actually believe a couple of months ago, they actually
- 8 renamed that to Google Diagnostics.
  - So this was about data. I mean, for us, data
- 10 was the gold. And the conversations, as you'll see,
- 11 with Walgreens were all about data, or were mostly
- 12 about data, because of how we thought about data. So I
- 13 wanted to keep us under the radar.
- Even if people knew who we were, we wanted
- 15 them to think, like, we are this, you know, plain ole
- 16 lab company, like a Yellow Cab, just another cab
- 17 company.

- 18 Q Who -- I guess why didn't Theranos stay in
- 19 that sort of stealth mode?
- 20 A I think it became difficult once we launched.
- 21 And unfortunately, you know, media just paid more
- 22 attention to us, you know, than we were ready for.
- Q Did you and Ms. Holmes share the view that it
- 24 would be preferable to stay in stealth mode --
- 25 A Yeah. I mean, she -- she was the CEO. When 0073
- 1 we closed the round in 2011, I think we had a 7 billion
- 2 valuation even back then. And unlike other Silicone
- 3 Valley companies, once they just raised a few million
- 4 bucks, they will do a press release, and now -- and
- 5 once they hit a billion valuation, of course, they do a
- 6 bigger press release.
- 7 And here, we had signed a contract with
- 8 Walgreens, and we didn't say "hush" to anybody. It was
- 9 our idea, saying, "Let's -- why -- why educate others
- 10 until we are ready?"
- And the same thing with Safeway. And we
- 12 raised the capital. Even when we raised the capital in
- 13 2014, '15 when people knew who we were, we didn't tell
- 14 people we had raised the capital. For us, that was a
- 15 way to basically tell -- poke the bear. That now we
- 16 have resources that we will -- invest in our business

17 and we can grow faster. And we didn't want to do that. 18 So it was absolutely her -- her thoughts and 19 her strategy. 20 So in your view, sort of the -- sort of 21 additional media attention that came -- that the 22 company had in 2013, 2014, that wasn't something that 23 Theranos went out and sought? 24 A No. We -- I mean, I was hell-bent against 25 media. And we both shared that vision. We didn't want 0074 1 too much attention. We didn't have any media person on our team. Like I said, we had literally one person in 3 all of our company was the communications director. 4 I think what happened was: People got 5 interested. And at least at that point, you know, 6 Silicone Valley had not seen a female entrepreneur, and 7 I think a lot of people in media, I mean, not to that level -- were obsessed with her. And even when the Fortune article came out in 2011 or '12, something like 10 that, we didn't disclose to them what our valuation was. But they were snooping around. Obviously, once 12 media gets involved, they snoop around. 13 So, you know, we -- we didn't -- we were 14 trying to not get media. Now, once they reach out to 15 you -- to us -- reached out to us, things changed 16 because you lose control, as you learn unfortunately, 17 over what you can say or cannot say to media or how 18 much you can engage or not engage with media. It seems 19 to be, now in hindsight, it was kind of an 20 all-or-nothing kind of thing. 21 BY MS. CHAN: 22 How did the media find the company then? What -- was there an event that took place that precipitated the media attention? 25 A Yeah. So what happened was: In 2013, when 0075 1 we were launching at Walgreens in September, one of our board members, Mr. George Schultz, said, "Somebody should do a simple write-up, not much -- much in detail, about the company," and he knew somebody in media at Wall Street Journal, ironically. His name was Joe Rago. And he came, he spent some time with us, and he wrote just an editorial, but I don't think there was 8 anything significant there. 9 After that, we had a -- a lawsuit against a 10 patent troll who had been trying to steal our patents and -- according to my understanding, and we had 11 engaged a big law firm, David Boies, Boies Schiller and -- BSF. And we won the lawsuit. And (b)(6); (b)(7)(C) 14 wanted us to do a small article for Fortune, and we 15 said, "Why do we need that? I don't think it's 16 necessary."

And said, "No. The reason I took this 18 lawsuit is: There are other patent trolls. You guys

```
are a patent factory, you know. And there are a lot of
20 patents you haven't even filed yet, and there are other
21 people who are going to try to steal your patents. And
22 so if we print a small article that, you know, you went
23 after a patent troll, anybody who tries to steal your
24 patents or patent trolls will think twice."
25
          So that was going to be the theme of that --
0076
1 that article. Initially, this is how it started. But
2 I think that reporter, once he met with the company,
   and then I think he spoke with a few board members, got
   the wind that the company was valued at a high
   valuation, and that he got obsessed with it. And this
   is how it happened.
      Q Was that (b)(6); (b)(7)(C)
7
      A I don't remember the name anymore, but I
   think it was in Fortune magazine.
10
          MR. MCKAY: Is now a good time to take a
11 break --
12
          MR. KOLHATKAR: Yeah.
13
          MR. MCKAY: -- for just a minute?
14
          MR. KOLHATKAR: Why don't we go off the
15 record at 10:22 a.m.
16
          THE VIDEOGRAPHER: We are going off the
17 record.
18
          (A brief recess was taken.)
19
          THE VIDEOGRAPHER: Rolling.
20
          MR. KOLHATKAR: We're back on the record at
21 10:33 a.m.
22
          BY MR. KOLHATKAR:
23
       Q Mr. Balwani, just to confirm, you didn't have
24 any substantive conversations with the staff during the
25 break; is that correct?
0077
1
      A
         No, I did not.
2
          So I want to turn a little more specifically
3
   to just telling more a little -- a little bit more
   about Theranos's technology.
5
         So you've described a few different things.
   Sort of you viewed the software as a -- as a major
6
7
   component of it?
          Yes.
8
      A
9
          And when you joined, there was -- there was a
   sort of the hardware aspect in terms of the TSPU as
11
   well as the cartridges and the capillary tubes; is that
12 right?
13
       A
           Correct. And the manufacturing.
14
           And the manufacturing. Am I missing anything
15 in terms of what the technology was at that time you
16 first joined?
17
       A
          When I joined?
18
       Q
           Yeah.
19
          No. I would just add that as part of
```

20 software, there was this machine learning and

- bioinformatics piece that was also in place. But 21
- 22 that's -- I include that was part of software.
- 23 And over time, did -- did Theranos's
- 24 technology sort of expand in terms of what it included?
- 25 Yes, it did. 0078

1

2

- Q What else did it grew -- include?
- Well, that's -- there were a lot of pieces as
- we grew. I can give you maybe a broader overview, and

then if you want more details, I can drill down. 5

In chemistry, for instance, initially when I 6 joined, the team was small. We were just developing

chemistries, buying ingredients or reagents and -- and

other things from outside. Over time, we started adding more and more of those components in-house.

10 Initially, also, for example, some of the

core technologies we started developing in-house. So 11

this -- this term called binders or antibodies, most

companies buy from outside, and in our case, we knew 13

14 that we may be locked out of some binders by our

15 competitors. Deliberately, they will tell the suppliers

16 not to sell to them. So we developed our own in-house

team that creates binders, like artificial life

basically is -- is the high way of describing it. It 18

19 was a very critical thing for us.

20 Then we have a few other teams in chemistry

21 that were doing nucleic acid amplification. This is a

22 form of technology that they were doing. There was a

team that, you know, does, like, sequencing work,

genomic sequencing stuff. So that team was built, and

25 we brought a lot of people in. We hired excellent 0079

people in that team. Then we also hired specialists in 1

2 fluid dynamics, so we had people doing that. 3

And the mechanical engineering side, we added 4 more people on the firmware side who can do embedded 5 systems.

- Q What do you mean by "embedded systems"?
- Yeah. Embedded systems is a technology that

allows you to put software on a chip itself. So I

don't know how to -- I mean, if you want -- I can go

10 deeper into that if you want.

- 11 O No. I think that's good.
- 12 A That's good enough?
- 13 O Yeah.

6

7

19

14 Okay. And then we also had mechanical

15 engineers with deeper specialties in small volumes,

microfluidics. And then we also added a lot more

17 expertise on the manufacturing side. We added people 18 who were specialists.

Manufacturing in the U.S. is a -- as

20 difficult a task as you can imagine. It seems simple.

21 It's not. The reason is: Most of the manufacturing is

out in China, so to hire people who are specialists to

be able to make plastic parts, especially really 24 high-precision plastic parts, is a major challenge 25 here, so we built the team in-house. 0080 1 Then we went further downstream to saying, 2 "Okay. There are components that we need in order to 3 build those plastic parts. Let's hire those specialists." So there's a thing -- technology called 5 injection molding and making the mold itself. 6 So if you think about a plastic cap, for instance, you know, this (indicating) is made in a 7 factory in an injection moldings machine, but the 9 system that tells it to make a cap that looks like this 10 with rings inside it, that is called a mold. It's a very difficult art. Even people here in the U.S. don't 12 like to tackle that problem because it's very 13 complicated to make molds for high-precision parts. 14 Especially where the precision is not just 15 the tolerance, but the precision is also the reflection 16 of light, and how light enters, and so on and so forth. 17 So it's a pretty -- it's an art. We built that team 18 in-house. And then -- it's just a fantastic team. 19 So we did manufacturing there. We then also 20 built an automation line inside of a CLIA lab, so all of that was new technology. We built a lot of software 22 for CLIA lab automation. We also built automation lines for manufacturing our capillary tube nanotainers, 24 CTNs. I'll just refer to it as "CTNs" if that's okay. 25 O Okay. 0081 1 A So CTNs. That includes the nanotainer, by the way. So CTNs. 3 We then also added manufacturing lines for assembling our consumables cartridges. And that was a 5 monumental project because we go there, it's just a beautiful space, medical-grade clean room. The robots are moving around and doing things. And we had to program those robots. We had to design controller 9 boards to control those robots because it's realtime. 10 You cannot be off by one millisecond. Things will go 11 wrong. So that, we built in-house. 12 So that's just the -- one component. Then we

13 built a ton of software, a lot of software. And I can go into detail if you want in software. But our -what we built was a tight integration of pretty much 16 everything that the company was going to do all the way 17 from welcoming a patient into our stores, so when 18 somebody walked in, if they had our app, we knew who is coming in before even they showed up, if they allowed 19 20 us to, obviously, and -- to the tiny details of 21 tracking the sample. You know, a sample is picked up, 22 who picked it up, and you can click on the name of the

courier and see what is the history, how many times

they've picked up from that location.

25 We also built cool apps that allowed us to 0082

1 make sure that -- be aware that -- you know, in the lab

industry, people do a lot of dirty tricks. Somebody is

going to show up pretending they are our people and

pick up our samples and -- except they're not our

5 people. So we built smartphones to be able to do a

two-way handshake, so they have to be our people using

the thumbprints. So all the way from there to when the 7

sample came to the lab, we were tracking it, scanning

the sample there, aliquoting it.

10

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Then in the -- we built our own lab information system because we looked at the LISs, or live information systems, in the market. And the lab industry is like -- literally, in my opinion, like a cab industry. They don't have much cool software. 15 It's old, probably made by the Soviets in the '80s. I don't know who made them, but it's pretty bad.

And so we built our own software that allowed 18 us to directly link with smartphones. We could do a lot of things with LIS on a -- in a browser, and then also, we put many key components of that on iPads and iPhones. Then we built our crown jewel app, which is the Theranos. Me app for consumers.

23 So you could download the app, you could scan 24 your lab order, take an image on it, and it will go to 25 the Cloud, and we will automatically transcribe for you 0083

1 so you don't have to type anything in. You can look up your physician, you can look up your insurance, you could take a picture of your insurance card and we will see if you are eligible or not. We will tell you up 5 front how much the lab is going to cost you, which is a breakthrough in healthcare in general. 6

So we developed all the software completely tightly integrated, and then reporting the results out to the physicians using an electronic medical record connector that we also developed in-house.

And I'm sure I'm forgetting a bunch of other things. I mean, we had a lot of technology.

Q What about on the -- the analyzer side, what did Theranos develop over time in terms of sample 14 15 processing units?

Yeah. I mean, we filed a very large number 17 of patents on the analyzer, so I would not be able to capture everything. Some of them are actually above my pay grade because they are too technical for me to 20 describe. But we developed an analyzer, I think, that's -- actually, I believe it's a major breakthrough that allowed us to do samples for multiple different types of chemistries in one device.

24 And so today, if you go to a typical lab, you 25 have analyzers that do general chemistry, you have 0084

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analyzers that do amino acids, you have analyzers that
   do nucleic acid amplification, and you have analyzers
3
   for hematology. So it's literally like you have a
   calculator for calculations, you have a typewriter for
5
   typing stuff in, and you may have other things, and
   somebody brought a PC to you that can do all of those
7
   things in one system.
8
         And we built a system, so now you can
9 basically collect a sample from the patient and
10 theoretically put it in the machine, and we can
    intelligently distribute the sample in parallel and be
12
   able to give you the result from all four different
13 systems.
14
          So it's like putting kind of like a lab in a
15 box as technology. No, it's -- sorry, go ahead. You
16 have a question, it seems like.
17
       Q What is that analyzer? What was it called?
18
          It's TSPU 4.0, and obviously, it involved
19 3.0, 3.5. And then 4.0 had dozens of permutations. So
20 4.0, 4.0s, 4s, 4sv1. There were -- sorry, should I
21
    slow down?
22
       Q Maybe.
23
       A
           Yeah.
24
           If you could just run through those one more
25 time.
0085
1
          Sure. So System 4 had many different
2 versions. Think about Windows. You know, Windows 3.0,
   Windows 3.1, 3.1.1, so on and so forth. And partially,
4 I brought that mindset of versioning product like this,
5 like Windows for Microsoft, I guess.
6
         But -- so our products were 4.0, 4s, 4sv1,
   4sv2, 4sp2v1, 4sp2v2, and I'm sure I'm forgetting half
   a dozen or a dozen more. So there were a lot of
9
   different permutations as we were tweaking and making
10 the device better. And this was going to be a
11 never-ending process. We just gave it a new version
12 number, like the iPhone IOS.
13
          So you used some sort of a software
14 nomenclature to describe the different 4 -- System 4
15 machines --
16
       A Yes.
17
          -- you just described?
18
          I guess, setting aside the -- sort of the
19 software element, did the different 4 systems, I guess,
20
    look and -- and function differently?
          Yeah. There -- there were --
21
22
          Was the hardware different in the machines?
       O
23
       A Yes.
24
       Q
           Okay.
25
           Yeah. The hardware was different. The
0086
1
   electronic boards were different. And the hardware was
```

2 different to what a nontrained person will miss in a

- 3 subtle way, but to the systems person, a person who is
- 4 responsible for assays would say pretty significant
- 5 ways. So the hardware was different, yes.
- 6 Q And before we go -- kind of go through
- 7 those -- those 4 system machines, you also mentioned
- 8 kind of a 3.0 and a 3.5.
- 9 A Yes.
- 10 O What were those?
- 11 A They were early incarnations of System 4 --
- 12 System 4.0.
- 13 Q When did Theranos create the 3.0 system?
- 14 A 3.0, I think existed before I came to the
- 15 company. As a matter of a fact, when I joined the
- 16 company, 3.0 was the system in place. And then 3.5 was
- 17 created, I think, in 2012ish or 2013 time frame. And
- 18 then -- but 4.0, we started working on back in 2010.
- 19 Q Could the 3.0 TSPU conduct all four type --
- 20 types of tests that you described?
- 21 A No, it could not.
- 22 Q What could it -- what could it do?
- 23 A Yeah. There were -- and again, this is my
- 24 understanding. I'm not a chemist, so I'm going to
- 25 describe it loosely. But there is a class of assays 0087
- 1 called immunoassays and ELISA. 3.0 could do those.
- 2 Q Do you know what "ELISA" stands for?
- 3 A I have no idea. It's a technical term,
- 4 like -- it's a name -- it's like a chemistry name.
- 5 I -- I read it a few times, but I have never been able
- 6 to memorize it.
- Q What about the 3.5, what could it do? How
- 8 was it different than the 3.0?
- 9 A 3.5 did similar things like I described
- 10 earlier. And in addition, we had also done a prototype
- 11 of general chemistry in 3.5, but we would not be using
- 12 it for that yet.
- 13 Q Okay. So it could do -- in other words, the
- 14 3.5 could do immunoassays, ELISA, and had the potential
- 15 for general chemistry?
- 16 A Yes.
- 17 O And then what were -- so what were the
- 18 different methods that were in the System 4?
- 19 A The remaining fourth one, which is the
- 20 nucleic acid amplification test.
- 21 Q Okay. And so then you described sort of a
- 22 number of System 4 devices.
- 23 A Uh-huh.
- Q I guess let's start with the 4.0. What was
- 25 sort of the original 4.0 and how did it change from the 0088
- 1 4.0 to the 4s?
- 2 A You know, those, I would not -- I wouldn't
- 3 remember those details, because like I said, there were
- 4 small differences sometimes. And sometimes the board

will change, sometimes some robotics will change, sometimes the gantry that moved inside and out would 7 change. 8 So I don't recall exactly what was changing 9 between those, you know, dozen or so -- or two dozen 10 versions. But I know -- or it may be they were -- many of them were changing because we were constantly 12 improving. So when, you know, let's say Piece Number 1 13 was changing, then the team with Piece Number 2, that 14 thought was done but would come up with improvements, 15 and they'd say, "Oh, well, let's just put it inside the 16 next version." 17 So it was kind of an integrated process. 18 The -- I guess I want to give you a couple of 19 terms and see if you can put it in the context of those 20 devices you just listed. The term "Edison," was that a term Theranos 21 22 used internally? 23 A Edison was a code word that was used for the 24 3.0 version. The 3.0 version was the one that was 25 existing before I came to Theranos. 0089 1 What about "miniLab," did you hear that Q 2 term --3 A Yes. 4 O -- in your Theranos -- what was that used to 5 refer to? It was a loosely defined term. We had 6 7 visited Johns Hopkins as part of our relationship with Walgreens, and they had used this term to describe our system, and then we started using it loosely. But we 10 didn't -- I don't recall ever referring to a machine 11 like, "This is the final miniLab." It was -- sometimes 12 we would, you know, refer to the 4.X machines as 13 miniLabs. Sometimes a prototype would be a miniLab. 14 So it was loosely used. 15 O The -- the machine that -- did you bring a 16 machine out to Johns Hopkins for that --17 A Yes. 18 0 -- for that meeting? 19 A Yes. 20 Do you -- do you recall what version it was? 21 A I believe it was 3 dot -- either 3.0 or 3.5. 22 I think it was 3.0. 23 Q And did -- did Theranos use "miniLab" to 24 describe either those 3.0 or 3.5 machines internally? 25 People may have. I mean, like I said, it 0090 1 was -- a lot of these code names, even Edison, was a 2 name of a room, was the name of a project. It was Edison 3.0. Some people even called 3.5 Edison 3.5. So 4 we were not strictly enforcing rules on code names.

People kind of used different names to describe

5

different things.

- And I've also heard the term "monobay" and 8 "multibay." 9 A Uh-huh. How does that fit into the -- the 10 11 nomenclature of the devices that you described? 12 Yeah. At some -- at one point -- so if you 13 look at our TSPU, we wanted -- our goal was: In the long run, this is going to be in the field, and we 15 wanted to minimize the repair and downtime, you know, 16 when we go service something. 17 So we designed it as a -- unfortunately, I 18 came up with the name. And we designed it as a data 19 center. If you go to a computer data center, you can 20 just pull out a server and put in a new one and the --21 the Cloud doesn't have to shut down, right, the Google doesn't shut down to replace components. And they call 23 them blades, right, those computers. 24 And I used the same terminology for our 4.X 25 machines. They were designed so that you can take out, 0091 1 like, the guts of the machine and it was like a blade. I don't know if it makes sense. And then you can just pop in a new one and then bring the blade home for service, but the -- you don't have to replace the 5 entire machine. So any machine that could allow us to do 6 that, we used to refer to it as monobay or multi --8 what was the term you used? 9 Multibay. Q 10 Multibay, yes. 11 So monobay and multibay didn't have anything to do with the number of samples you could put into the 13 machine? 14 A No. You could always put only one sample at 15 a time in TSPUs. So theoretically speaking, you could put more, but we never did. It was always one patient, 17 one sample, one sample at a time. 18 Q Why was that? 19 It was a design choice. It's like mainframe 20 versus PC. Right? When you -- in the old days, on a mainframe -- or even today, multiple people log in and do -- they use the same -- at that same time, multiple people are sharing the machine. But an iPhone, you 24 know, usually one person uses it, a PC, one person uses 25 it. And our thinking in the mind was that these 0092 1 devices are more personal like PC devices. 2 So there's like -- ultimately, you know, ten years down, if you put it in somebody's home, they can prick a finger, put it in the cartridge, shove the
- 5 cartridge in. If you have to put two samples in, it 6 complicates things, and it's no longer a CLIA-waived
- 7 device in your opinion -- in my opinion because it's
- complicated. The average person doesn't know which

blood went where, and it's going to complicate the 10 whole equation. 11 So we decided that you can only do one -- you 12 will -- we will do one sample at a time. But, however, 13 the system was designed to do, you know, many, many 14 samples at a time if you reduce the number of assays. 15 I guess how could the -- I'm just trying to 16 think in terms of the mechanics. How could the system -- how could you put in multiple samples at a 17 18 time into one of these TSPUs? 19 So there was a cartridge, and the cartridge 20 had holes. Right? And like I mentioned earlier, our 21 entire system was designed and controlled by the Cloud. 22 We could create a new protocol very easily. 23 And the protocol in chemistry means 24 instruction sets to the machine. So we could send a 25 new instruction set to the machine saying, "You know, 0093 1 instead of assuming blood is in just one hole, blood actually is in two holes and there are two different 3 samples." So that's just software. 4 Now, obviously, there was more work involved 5 in designing this cartridge because if you're processing, let's say, four samples, you need four times the reagents and four times everything. Not necessarily four times or more. 9 10 many tests could it run at a single time? I think we had tested it eight assays at a 11 13 beyond that. But eight is what I remember. 14 What about the 3.5? O 15 A I would say same. 16 Did that change with the -- with the 4.0?

The 3.0 machine, I guess, how many -- how

12 time. It could have done more. We never pushed it

17 A Yes, significantly.

18 How many assays could the 4.0 run at a time?

Theoretically -- so it depends on how you

19 20 design the cartridge. There was no limitation in the

21 system that would -- even 3.0 or 3.5. So what we are

talking about is the consumable. Right? And the

23 consumable, if you shrink it and make it smaller, then

24 you could add more and more tests.

25 So in 4.0, we had designed a cartridge. I 0094

1 think we had pushed the limit to, like, 65 or 70 tests

at a time. Now, we couldn't come up with a realistic

scenario where people would actually use it anytime

soon, but theoretically, we could have done 70 tests at

a time. Or probably 65, 70. I don't remember the

6 exact number, but it was a high number.

- 7 More than the eight --Q
- 8 A Oh, yes.
- 9 -- by a significant measure? Q
- 10 Absolutely. Yes, yes.

11 BY MS. CHAN: 12 Q How did that -- how did the capabilities of 13 the 3.0 and the 4 series TSPU, how did they compare to 14 commercially available machines? Can the commercially available machines conduct testing on multiple samples at one time? And how many tests can be conducted on --17 on those machines? 18 Yeah. In general, the commercially available 19 machines, the ones that you put in the lab, are designed for high input. And -- and I can go into as 21 much detail here as you want. But the -- the -- the 22 thought behind that is: You wait until enough samples 23 have been collected, and then you run them at the same 24 time as a batch. Right? 25 So let's say if you're in a hospital lab or 0095 a -- or an -- an independent lab, these machines are 1 designed to run, say, 96 samples. 96 is, for some reason, a magic number in chemistry. Just like in computer science, it's binary, 0, 1, and 16, and 64, chemists are ninety -- based on 96. So most of these machines will be the 96, or double of that is, what, 180-something or 384. Right? 8 So it depends on the machine, it depends on the chemistry, but most of them batch them in large 10 numbers. And the primary reason is: Economics. When 11 you buy reagents, the reagent base in the chemistry packs, they come in bottles. So once you open it, you 13 have to use it because they come with an expired date 14 that you have to use it within 24 hours. 15 So if you don't have 96 samples, you don't 16 want to open that thing because they're expensive. 17 Right? But once you open it, then you use it. So they 18 are more traditionally batch oriented. 19 The other big difference is: These machines 20 are designed for batch processing, so they usually do a 21 smaller set of assays. And this is my understanding. 22 Right? And is -- for example, a machine will do only

certain general chemistry tests. And if you want to do 24 hematology, it's a completely different machine. It 25 has a different detection system, it has different 0096

- 1 mechanics, it, you know, has lasers or whatever.
- Right? It's different. If you want to do nucleic acid
- amplification, it's a completely different machine.
- You cannot run a nucleic acid amplification test in the
- machine in which you did the immunoassay, right,
- because they're completely different. They won't know 7 what to do.
  - And that was one of the big differences.

- 9 Like, we put together a system where you can do all of
- that together. Just like I said, the traditional lab, 10
- 11 think about it more as, you know, there are calculators
- and typewriters, and here, we had a PC where you can do

13 different types of tests.

And you can do them in parallel was the

15 beauty of it. You could aliquot the sample and --

16 let's say, a nucleic acid amplification test would be

- 17 like a Zika test. You can take a sample, put it in the
- 18 tray, put it in front of a detection system, and it's
- 19 going to heat it up -- and I can define to you in more
- 20 detail. But it's going to do its thing to detect the
- 21 signal from it. And then you can -- in the meantime,
- 22 the robot can go and say, "Oh, let me go and run the
- 23 vitamin D test here." So theoretically, you can do
- 24 that.

- Does that answer your question?
- 1 Q Yes. Thank you.
  - BY MR. KOLHATKAR:
- 3 Q So you mentioned, I guess, the -- the -- sort
- 4 of the -- the throughput issue. Did -- did you 5 supervise Theranos's CLIA lab?
- 6 A Well, there are lab directors. There are
- 7 legal requirements on the word "supervision." So the
- 8 lab directors are responsible for all the medical
- 9 decision stuff. So I cannot make any medical decisions
- 10 in the CLIA lab. However, all labs report ultimately
- 11 to business, so -- not all, but most, I should say.
- 12 Independent labs for sure.
- And so there's recruiting to be done in the
- 14 lab, decisions to be made on how to negotiate contract
- 15 with the vendors, scheduling employees because overtime
- 16 is a big issue in the lab. Because of how the machines
- 17 work, you have to design the employee schedules around
- 18 machines.
- 19 So all of that came to me -- reported to me,
- 20 but there were other people managing it, but they did
- 21 report under me.
- Q And who were -- I guess when did Theranos
- 23 create a CLIA lab?
- 24 A Yeah. Our first CLIA lab was 2011. I forgot
- 25 the month, but it was open in 2011. It was tiny, very 0098
- 1 small. And the lab director at that time reported to
- 2 Elizabeth Holmes. He didn't report to me. There were
- 3 five people there. I didn't spend much time there, to
- 4 be honest, in that lab until 2013.
- 5 Q Why did Theranos have a CLIA lab in 2011?
- 6 A Well, there were a lot of reasons. We wanted
- 7 to be in the business, a CLIA lab, there's one reason.
- 8 We also had a lot of samples we were developing in R&D
- 9 that you have to run and compare to what the predicate
- 10 device or the commercial machines say. In chemistry,
- 11 one of the biggest challenges is: What is the truth?
- 12 For example, if I were to say, "What is your vitamin D
- 13 level," to say what actually is your vitamin D level is
- 14 not an easy answer. It changes depending on which lab

```
15
   you go to.
16
           So what happens is: People pick a predicate
17 device that has been cleared by FDA and say, "Okay.
18 I'm going to match my device to that because I know FDA
19 has already cleared that." And those devices run in a
20 CLIA lab. And they bring the structure, and the SOPs,
    and the rigor of a CLIA lab so that you know everything
22 that is running is correct and right.
23
       Q By "SOP," do you mean standard operating
24 procedure?
25
       Α
          Yes. Yeah.
0099
1
           Who was the lab director that reported to
   Elizabeth Holmes?
3
       A It was a person named (b)(6); (b)(7)(C)
                                                I think
   his full name was (b)(6); (b)(7)(C)
5
   (b)(6); (b)(7)(C)
6
       Q And did that -- did Theranos close that 2011
7
   CLIA lab at some point in time --
8
          No.
9
           -- or it -- it did -- it just continued the
10
    certification and grew the lab in 2013; is that fair?
11
       A Correct. Yes. It was the same lab
12
    certificate. We opened in 2011 and then we started
13
    adding more and more capability to the CLIA lab.
14
           So following (b)(6); (b)(7)(C) who were the other lab
15 directors at Theranos?
       A Yeah. (b)(6); (b)(7)(C) also had a co-lab director
16
17 who was working part-time with him. I forgot his name.
18 He was a consultant. I mean, lab directors, it's not
    required that you have to be full-time. As a matter of
20 fact, up until recently in California, a lab director
    could be a lab director for an infinite number of labs.
22 Now I think it's five.
23
           So (b)(6); (b)(7)(C) was our employee full-time on
24 site. And we had a consultant whose name I forget. He
25 was also a co-lab director. Then we had hired another
0100
   lab director full-time. His name was
1
2
                                          I think around the
3
   time (b)(6); (b)(7)(C)
          And after that, we had a few other lab -- I
4
5
   mean, I can give you the names if this is what you
6
   want.
7
       Q
           Sure. Yeah. That would be helpful.
           Yeah. So (b)(6); (b)(7)(C)
8
                                      -- and even when (b)(6);
9
               was a lab director, we still had this
    consultant as -- on our lab certificate because we were
11
    asking him for advice and other things.
          (b)(6); (b)(7)(C)
12
                                      we had another
    gentleman, his name was (b)(6); (b)(7)(C)
13
                                              as a lab
    director. We also had another consultant who was co-lab
15
    director at that time for the lab. Her first name was
16
   (b)(6); (b)(7)(C) I forget her last name.
```

17	And then after that, we hired two additional
18	lab directors in two thousand the end of 2015, I
19	think January of 2016, (b)(6); (b)(7)(C)
20	(b)(6); (b)(7)(C) They were both full-time lab directors. I'm
21	talking about Newark lab here in California.
22	Q Was (b)(6); (b)(7)(C) ever a director of any CLIA
23	lab for Theranos?
24	A Yes.
25	Q When was that?
010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	A (b)(6); (b)(7)(C) the Arizona lab,
2	which is a different lab, not the Newark lab. And we
3	started the Arizona lab, I believe you know, I'm
4	going to get the date wrong. But it was the winter of
5	2014 and '15. So either December or January time
6	frame.
7	Q You mentioned the the Newark lab being the
8	CLIA lab. Was that always the location of the CLIA
9	lab?
10	A No. Our CLIA lab moved around. It started
11	out as as the company moved, the CLIA lab moved
12	with with us. It was in Palo Alto, it moved to
13	another location in Palo Alto, I think, and moved back
14	to Palo Alto. And then once we acquired a larger space
15	첫번째도, 1.10번째
	in Newark, California, across the Bay, we built a brand
16	new lab. The lab guys actually designed and built the
17	lab the way they wanted it for the future. And then
18	the lab moved there.
19	MR. KOLHATKAR: We have to switch the
20	videotapes, so we'll go off the record at 11:20 a.m.
21	THE WITNESS: Can I run down and use the
22	restroom?
23	MR. KOLHATKAR: Yeah. I think it's five
24	minutes.
25	THE VIDEOGRAPHER: Off the record. Please
010	
1	don't forget your mics.
2	(A brief recess was taken.)
3	THE VIDEOGRAPHER: Rolling.
4	MR. KOLHATKAR: Back on the record at 11:08
5	a.m.
6	BY MR. KOLHATKAR:
7	Q Mr. Balwani, just to confirm, you didn't have
8	any substantive discussions with the staff during the
9	break; is that correct?
10	A No, I did not.
11	Q Ms. Chan has a question.
12	BY MS. CHAN:
13	Q The consultant that you mentioned that was
14	the lab director with (b)(6); (b)(7)(C) and sort of stood by for
15	(b)(6); (b)(7)(C) as well or (b)(6); (b)(7)(C) is that
16	is that (b)(6); (b)(7)(C) ?
17	A Yes, that's correct. Yeah.
18	Q And is he still to your knowledge, when

did he stop being a consultant to Theranos? 20 A Yeah. Actually, let me clarify. With  $\binom{b)(6)}{b}$ 21  $_{(b)(7)(C)}^{(b)(6)}$  I don't exactly recall if he was a co-lab 22 director or not. I earlier said he was. He was definitely on our certificate. He may have been a 24 technical supervisor, but I actually think he was a co-lab director, but I'm not sure. But he was 0103 1 involved. 2 And he stopped -- I think once we had (b)(7)(c) 3 full-time, at some point during that time 4 frame, we had removed him from our certificate because 5 we didn't think we needed someone. We just hired a full-time lab director. BY MR. KOLHATKAR: 8 Q And you mentioned that it was your 9 understanding -- let me rephrase that. 10 Was it your understanding that the lab 11 director had sort of the final say on all medical 12 issues? 13 Yes, absolutely. A 14 Was that your understanding throughout your 15 time at Theranos? 16 A hundred percent, absolutely. 17 Do you know if Ms. Holmes shared that 18 understanding? I believe so, yes. 19 Α 20 What's your basis for that belief? 21 Because I never heard her overrule a lab 22 director, and in general, whenever we had any discussions on patient reports or results, we would 24 always say, "Talk to the lab director" or "Make sure 25 the lab director knows." 0104 1 So it was a strong implication there that we were not -- she -- she knew the lab director is the 3 final decision maker. 4 Q You also described Theranos's CLIA lab moving around to different locations. 6 Did Theranos maintain a separate sort of R&D 7 lab? A 8 We had a lot of R&D labs, yes. And I guess specifically for -- for actually 10 running patient samples? 11 A Well, you -- you don't run patient samples in 12 an R&D lab. They are just considered samples. If it is a patient sample just tech -- strictly defining, it 14 has to go to a CLIA lab. We just broadly used any 15 patient that gave us blood. But the samples that come 16 into R&D labs cannot be CLIA lab patient samples. They can only go to CLIA lab. And if a sample comes to an 18 R&D lab, it's no longer a clear sample, period. 19 Cannot -- there's no overlap between them. 20 Now, you could use the CLIA lab to run some

- 21 samples that are not meant for CLIA lab reporting. So,
- 22 for example, if you have a machine, and during the day
- 23 you get a hundred patients, you run the samples,
- 24 everything is done, now the R&D guys say, "Hey, look,
- 25 we need to run some samples on this machine to generate 0105
- 1 data to compare" to whatever study they're doing, they
- 2 will go and get the samples and run them. And
- 3 according to the protocol, you can either buy samples
- 4 from outside or even the leftover samples. As long as
- 5 they're anonymous -- anonymized, you can use them for
- 6 R&D.
- 7 Q And, I guess, what did -- what was the --
- 8 what was the -- were Theranos's R&D labs always located
- 9 in close proximity to its CLIA lab or were there times
- 10 in those moves where they were kind of in separate
- 11 buildings?
- 12 A So the strictly R&D-only labs, for a long
- 13 time, were in the same building as the CLIA lab. So
- 14 between 2011 and 2013ish, we were strictly in the same
- 15 building. But CLIA labs have to have their own separate
- 16 rooms. R&D guys cannot go wander into CLIA labs. CLIA
- 17 lab employees usually cannot wander into R&D unless
- 18 there's a purpose for it. A project that, you know,
- 19 has been approved.
- The CLIA lab has its own protocol. The
- 21 samples that come from the CLIA lab must go to the CLIA
- 22 lab. I mean, you can store them in a storage space, of
- 23 course, until the CLIA lab picks them up, but they
- 24 cannot go to R&D labs. So there's a strict protocol,
- 25 even though they're in the same building. And you 0106
- 1 point to actually, a good question because maintaining
- 2 that separation was important.
- 3 And then at some point, the CLIA lab moved
- 4 into a separate building in Newark. However, the R&D
- 5 guys were still going there. And then I believe we had
- 6 a small area designated in that CLIA lab space which
- 7 people were exclusively using for R&D, which is okay.
- 8 In the CLIA lab, as long as you put signs that say,
- 9 "These machines are not being used for patient
- 10 samples," then you can do your R&D there. Companies do
- 11 that, according to my understanding.
- 12 Q Was there a -- was there sort of a name
- 13 internally for that -- that R&D space within that CLIA
- 14 lab?
- 15 A No, I don't recall it. It was -- because the
- 16 R&D kind of happened in all different areas of the CLIA
- 17 lab, depending on what assays you need to develop,
- 18 there was no R&D space there.
- 19 O The -- well, actually, why don't we just go
- 20 through maybe Theranos's different buildings. I
- 21 think -- I think that will help the discussion.
- 22 A Sure.

23 So you described that 2011 to 2013 time frame 24 where the -- as I understand it, the CLIA lab was in 25 the same building as the R&D lab? 0107 1 Yes. 2 O Although in separate rooms? 3 Correct. 4 O Was that -- was that at the Hillview address 5 of Theranos? 6 A Actually, yeah, that's -- and -- and when I 7 said -- it moved around in Palo Alto. Our CLIA lab originally started in the 3200 Hillview building. It was a really small room, the size of this room. But 10 the entire 3200 building was an R&D building at that 11 time. And again, a CLIA lab, only CLIA lab employees. I think we had three employees at that time. A very 12 13 small lab. 14 Then the company moved into the 1601 15 California Avenue address. This was the old --16 O No, go ahead. 17 This was the old Facebook headquarters. And 18 we signed the lease. They had trashed the entire 19 building before they left, so we had to go and rebuild everything and clean out everything. They even removed 21 the cables, the Ethernet cables. Literally, we had to 22 lay out everything. 23 And -- and the CLIA lab moved as part of that 24 move to that building. But we had another building, I 25 forgot the address. It was also in Palo Alto. It was 0108 1 near San Antonio Avenue. I forgot the address. It was called EMC building for some reason. Maybe the name of the street was EMC. We may have moved the CLIA lab there temporarily while we were moving from the 3200 5 building to 1601. It's possible. I don't recall. Like I said, 2011, '12, I was very little 6 7 involved with the CLIA lab. So we may have moved there 8 temporarily and then moved it to 1601 once we moved there, the entire company. And so that's where the 10 CLIA lab was. 11 Q When did the company make that move to 1601 12 California? 13 A I think maybe 2012 or early 2013. I don't 14 remember the exact dates. 15 And when was the Newark facility opened? 16 I believe end of 2013 or early 2014. 17 And at that point when the Newark facility 18 opened, is that when the CLIA lab moved to --19 A Yes. 20 Q And when did the company move to -- is it 21 1701 Page Mill? 22 Α Yes. 23 Q When did that happen?

I think end of 2014. We had a deal with

25 Stanford that we had to get out, I think, by 0109 1 Thanksgiving, and if we didn't, they were going to charge us a hundred thousand bucks a day in rent. So 3 we rushed out of that building probably around Christmas, Thanksgiving time frame. That's my recollection. I may be off by a month or a couple of months here and there. 7 Q When the CLIA lab moved to the -- the Newark 8 facility, was the -- did most of the R&D lab move with it, or as you said, it was more -- kind of some would 10 still be out at 1601 and some would be out at Newark? 11 The R&D lab didn't move with the CLIA lab, so 12 only the CLIA lab moved. But the CLIA lab equipment -the CLIA lab had all the equipment the R&D guys used --14 needed for R&D. So even though the CLIA lab had moved 15 to Newark, the R&D guys were still at 1601. But -- oh, 16 the move may have been in -- around the same time. I 17 actually don't remember by month what happened first. 18 But the point is: The R&D guys stayed back 19 at the headquarters, whether it was 1601 or 1701. 20 However, because, like I said, R&D guys needed access 21 to the CLIA lab, a lot of the R&D guys were approved. 22 They had badge access to go to Newark, get in the building, go in the CLIA lab, and do their thing, 24 whatever experiments they needed to run. 25 So they -- they were -- they had -- the R&D 0110 1 guys had access to the CLIA lab. The other way around was not -- not necessarily true. Q And when you at the -- when both labs were at the 1601 California address, were there labs upstairs 5 and downstairs at that building? Yes. 6 A 7 And what was the distinction between kind of 8 the upstairs lab and the downstairs lab? A Well, this building was really poorly 10 organized. It was not designed the way we wanted it. So we had taken one chunk of the space in 1601 as R&D 11 12 lab, and we had put our CLIA lab also upstairs, but it 13 was disjoined. They were not adjacent to each other. 14 They were far away, and they had separate badge access. 15 And then downstairs, we had another room 16 where it was just used by CLIA lab. So you -- CLIA 17 lab, as long as the -- you're in the same building, you 18 can have rooms that are not -- they don't have to be 19 connected by walls. So we had another lab, a CLIA lab 20 room downstairs in 1601. 21 And then, of course, the entire mechanical 22 engineering team was downstairs. I believe even the -some of the software guys were downstairs. It may not 24 be the case. And the cartridge manufacturing guys

0111

25 were -- were downstairs too.

- Did you ever use the term "clunkers" to refer to part of the CLIA lab?
- 3 A Yeah. There were some machines in the CLIA
- lab which were third-party commercial machines we
- 5 bought, and they used to break down quite a bit. And
- this was during the time when President Obama had the
- 7 "cash for clunkers" program for turning in your cars
- and buying a new car. And I used to say these machines
- break down so often, they're like old trucks, like
- 10 clunkers. So that's the background.
- Q And did the -- "clunkers" didn't refer to all 11 12 third-party machines --
- 13 A No.

1

- 14 Q -- in your mind?
- 15 Yeah. There were some. I mean, people may
- 16 have started to use that word for every big machine
- 17 because they -- all of them mostly did used to break
- 18 down a lot, at least you had to quality check them
- 19 every eight hours. So it's possible people just
- 20 loosely started referring to any big machine that
- 21 breaks down as a clunker.
- 22 What about the "Normandy" lab, what does that Q 23 refer to?
- 24 A Yeah. Again, another name that I came up
- 25 with, unfortunately. I'm a big history buff, and in my 0112
- 1 mind, when we launched in any geography with Walgreens,
- 2 that served as a beachhead so we can go and pick up
- samples from physicians' offices and grow our business,
- kind of like Normandy. I don't know if you know the
- 5 history. But the U.S. troops landed in Normandy. That
- was the beachhead. And then the Army and others came,
- and we beat the bad guys.
- 8 So that was the term. So the term "Normandy"
- 9 came from the project of our launch at Walgreens
- 10 initially. And then somebody said, "Well, the room
- 11 where we are doing finger sticks is Normandy." And then
- 12 some of the software guys said, "Oh, that's a cool
- name." They started using it for some software modules
- as Normandy. So then it kind of mutated and people
- 15 were abusing it.

16

- But that's the name. But there was a room
- 17 called Normandy.
  - That was a room within the CLIA lab?
- 19 A It was. So in 1601, there were two rooms.
- 20 One was an upstairs room and a downstairs room. The
- 21 downstairs room was named Normandy.
- 22 Did the upstairs room have a --
- 23 Have a name? Yes. The upstairs rooms had
- 24 all these big machines, so the lab guys had put names
- 25 of dinosaurs on these machines. And one time I was in 0113
- 1 the lab, and I'm like, "This feels like Jurassic Park
- 2 because all the machine names are named after

dinosaurs." So the lab said, "Can we use that name as the 4 name of the room?" So they started calling it Jurassic 5 Park. 6 7 Okay. So just to recap it, upstairs at 1601, that part of the CLIA lab is Jurassic Park? 8 9 A Yes. 10 And downstairs was Normandy? 11 From -- for the CLIA lab. 12 Q For -- for the CLIA lab? 13 That's right. 14 BY MS. CHAN: 15 And so were there different machines being 16 used upstairs versus downstairs where the older commercially available machines were used in Jurassic 18 Park? 19 A Yeah. In Jurassic Park was mostly all 20 FDA-cleared, unmodified devices. So any machine that 21 we bought from outside that we didn't touch, didn't 22 modify -- there may have been some modifications, but 23 nothing significant, was all in Jurassic Park. And the 24 Normandy lab was where we had what I refer to as 25 Theranos's patented -- Theranos's technology, our --0114 1 our trade secrets or our patented technology. And that was all in Normandy. 3 So that did include some commercial analyzers initially when we purchased them, then we modified them significantly, and they were part of the Normandy lab. 5 6 Now, there may -- may have been some other 7 small tiny machines that we bought commercially that were part of the Normandy that were not modified, but they were part of the, you know, for workflow, it was easier to have them downstairs. They were tiny. No 11 reason to just move the sample upstairs again. So 12 that's the reason behind it. 13 So you mentioned earlier, you know, there 14 were times when the R&D staff would need to go into the 15 CLIA lab. Why did they need to go in there? 16 A Yeah. I think I briefly alluded to that 17 earlier. There were a lot of samples we needed to run 18 to match them to what was being developed in Normandy. 19 So, for example, you know, let's pick vitamin 20 D. You are developing vitamin D assays and you run --21 let's say you get blinded samples, I get samples from 22 everybody in this room. And the R&D guys would run it, 30 samples, they would get the values, and they would 24 run it multiple times. And then they would run it on 25 the predicate devices, which are in the CLIA lab to see 0115 1 what answers you get from them. And if you don't match, then you calibrate devices to each other until 3 all the answers are matching. Now you know you have matched yourself to a predicate device.

5 So the R&D guys -- that's one use. The R&D guys used to go in the lab to run patients -- R&D 7 samples so they can get the values from there. So that's one -- a lot of times, they would go there just to understand how the commercial devices work. So R&D guys want to see how to software works. I used to go and observe the software on those machines to 12 understand how other labs, what kind of challenges they 13 faced when they used the machines. 14 So there were no predicate devices that were 15 in the R&D lab, they were all in CLIA? 16 Well, there were some predicate devices that 17 we could buy cheaply that required minimum maintenance in the R&D lab. We had a lot of devices -commercially available devices in the R&D lab. A ton 20 of them. 21 But there were some devices which were 22 expensive in the CLIA lab, and also, maintaining them is a major pain. Like I said, that's why I called them clunkers, because a trained person has to literally, 25 you know, wash and bathe them, and, like, clean them, 0116 1 and QC them, and calibrate them every eight hours. 2 And R&D guys -- and usually R&D guys, they're PhDs. They don't like following standard operating procedures. CLIA guys are guys that live by SOPs, you know. You tell them, "Pick up this bottle from here to here (indicating), they'll do it perfectly." Right? R&D guys would never be able to do it. They would drop something or put it here (indicating), you know. 9 So -- so that's the reason. 10 And what was the CLIA lab doing in the 11 2011/2112 time frame? 12 A Well, there were two things. One was: They 13 were helping the R&D teams. Like I mentioned this 14 example, they were using -- helping with our assay development. And they were also running patient 15 16 samples. We had one patient service center open at Safeway -- at Safeway's corporate headquarters where we 17 18 were collecting patient samples, and the samples were 19 coming to our CLIA lab and we were running them there. 20 BY MR. KOLHATKAR: 21 The samples that were being collected from 22 Safeway, those were being collected from venous draws; 23 is that correct? 24 A Yes. We were doing venous puncture. And 25 this was a time when we started -- I think 2011ish or 0117 1 2012, we started developing our CTN, the one -- the final product that you see. And as we were doing R&D 3 on CTNs during that time frame, we also asked people if they would volunteer and participate in an R&D -- in

research. And some participated, so we would also do a finger stick on them and get the sample and run them in

```
the R&D labs.
8
      Q What was Theranos's goal in creating a CTN?
9 Why -- why did you need to develop them?
10
       A Yeah. The CTN is a -- it was a very
11
   complicated project. I can give you a short answer,
12 then I can get into detail.
13
          The main purpose of that was to transport
14 samples from across the nation to our lab from finger
   sticks. Right? Technically from -- it doesn't have to
16 be a finger stick. It's capillary blood. You can
17 actually draw from other parts of the body. But
18 basically capillary blood.
19
          And we wanted to develop something that
20 provided an excellent patient experience because that
   becomes your interface with the patient. And so -- so
22 you collect the sample -- and there's a lot of
23 engineering and science that goes into that to
24 stabilize the sample, make sure you don't lose any
25 blood cells and proteins and all that stuff.
0118
1
         So that was the main reason behind it. And
2
   it came about, I think, around 2011, 2012, '12ish.
3
      Q Just so if I understand, you don't need a
   Theranos designed CTN in order to run a blood sample on
   a Theranos SPU (sic); is that --
6
      A Correct.
7
          Okay. So you mentioned the -- from the 2011
   to 2013 time period, Theranos was primarily collecting
   samples, specifically a lot from Safeway. Was there
10 any other sort of use for the CLIA lab in that time
11 frame?
12
       A
          There were multiple uses. One was that --
13 serving the Safeway patients. Also understanding the
14 CLIA lab business and how -- I used to spend time on
15 the software side to see how these machines -- how the
16 software works. We also acquired a lab LIS system --
17 third-party LIS system called LABDAQ that we were using
18 in the lab because primarily to see how other labs used
19 it. There are, like, 2,000 labs that use their
20 software. It's pretty bad.
21
          But I wanted to see how others were using it,
22 so that was the other reason. Start running the R&D
    samples was the other reason. So there were quite a
24 few reasons.
25
          There were other patient samples being run
0119
1
   other than those at Safeway; is that --
2
          Not that I remember at this time.
3
          And so at what point in time did Theranos
   decide to pursue a broader patient sample market?
      A Like serving the consumer testing?
6
      Q Correct.
7
      A
          We decided in 2010.
          Okay. So the goal in 2010 was always
```

- going -- was always going to be consumer focus; is 10 that --11 A Well, by "consumer," you mean 12 physician-ordered tests that consumers today take to 13 LabCorp and Quest, we wanted them to bring those 14 tests -- those records to us. So yes. 15 Q Okay. And when did the -- when did the 16 company first start buying commercially available analyzers with the objective of modifying them? 17 18 A 2010. 2010 is the first time when we bought 19 the Siemens machines. Like I said, one of the purposes of the R&D and CLIA lab was: We wanted to see how others do it. And we, you know, dug pretty deep into a lot of different machines from a lot of different 23 vendors. 24 Q And was it Theranos's intent in 2010 to do 25 microsample testing on the -- on the Siemens machine? 0120 A Not specifically on the Siemens machines. 1 2 There are three elements here. It was our intent to do microsample testing. We were also looking at a way to do high throughput microsample testing potentially if we needed to. 5 Because like I said, our TSPUs are discrete. 6 One sample at a time. And if you're doing 96 samples 7 at a time like a clinical lab, how would you do it? You can do it 96 times on the TSPU, but can we do it 10 faster plus -- you know, a more high throughput way? 11 So that was the other reason. And third was: 12 Just to, you know, see other devices. Get more 13 experience with the devices. 14 BY MS. CHAN: 15 Q I'm trying to understand sort of the business 16 strategy of the company. 17 A Yes. 18 Q In the 2009/2010 time frame, you developed a 19 TSPU. And as you said, it could only test one sample 20 at a time. 21 Α 22 Why at that point did the company decide to go into commercial testing if the TSPU wasn't sort of 24 suited to the high throughput situation? 25 Yeah. Initially, our goal when we met with 0121 1 Walgreens was that we would get our TSPUs FDA cleared. We would put them at Walgreens locations. The patient come in, you do a blood draw, insert the cartridge, and by the time the patient gets to the doctor, the most commonly ordered tests, we can run in the TSPUs. 5 Because, you know, about two-thirds of the 6 7 tests that are ordered by physicians are about 60 to 70
  - So our intent was -- our idea was that we

other tests. But it's a small universe.

9

10

tests and maybe 80, 90 if you include urine and some

```
11 would focus on those tests, put them on cartridges, put
12 them in Walgreens locations so that we can run -- after
13 FDA clearance, of course. And we would run those tests
14 right there on the spot.
15
          And so that was the primary objective at that
16 point. So TSPUs were suited for that purpose.
17
       Q Okay.
18
          THE VIDEOGRAPHER: Can you check where your
19 mic is and where yours is. I'm getting some rubbing.
20
         THE WITNESS: Maybe --
          THE VIDEOGRAPHER: There you go. No, you're
21
22 good.
23
         THE WITNESS: Okay.
24
         THE VIDEOGRAPHER: Thank you. Sorry to
25 interrupt. Please go ahead.
0122
1
         BY MS. CHAN:
2
      Q So how did the company, then, decide to go
   from that model to the larger commercial testing model
   where it would need to consider high throughput
5
   methods?
          So I just want to make one small correction.
6
      Α
7
   They're both commercial models. The difference is
   centralized lab model versus what we call on-site
9
   model, which is we put the machine on site model.
10
          It evolved over time. 2011ish, we were
11 thinking about, you know, how would we -- you know, the
12 FDA clearance was the key element there. We were
13 talking to Walgreens. We had some opinions from our
14 counsel that as long as we were not commercializing
15 devices, we didn't need FDA clearances. So we were
16 still kind of speculating, you know, which direction to
   go with that. We had a lot of discussions with
17
18 Walgreens. Walgreens was nervous about the strategy of
   putting TSPUs without explicit FDA clearance like a
20 CLIA waiver because they thought that they may have to
21 get a CLIA license for every location, like a moderate
22 complexity lab or a CLIA-waived lab.
23
          And we said, "Well, if you do this, then that
24 would basically mean that we are commercializing the
25 TSPU, and we're not going to do that." So we were
0123
   having discussions around the time.
1
2
         And then I think around the end of 2011 or
   early 2012, we said, what if we shipped sample and ship
   them to a central location? Yeah, it changes a few
   things in the model, but it allows us to launch faster.
   In the meantime, we can work with FDA, and if at some
7
   point we decided to do the TSPU on site, we can do that
8 too.
9
         So it evolved from the discussions in 2011,
10 2012, but in the back of our minds we were evaluating
    that we didn't commit to Walgreens or comment to
```

12 Walgreens that we can or we will do this. That

13 happened once we had a little bit more confidence that 14 we can. 15 Does that make sense? 16 Sure. 17 BY MR. KOLHATKAR: 18 Throughout -- once you took a more active 19 role in sort of the -- in the CLIA lab space, I 20 understand it to be -- is that fair in the 2013 time 21 frame? Let me rephrase that as a question. 22 Did you take a more active role supervising 23 the CLIA lab, meaning, the lab director would report up to you around the 2013 time frame? 25 A Yeah. The lab directors still continued to 0124 1 report to Elizabeth. But like I said earlier, the reporting structure was less important, more was who is spending more time. In 2013, because of software primarily, because we were going to deploy our software in the CLIA lab, I started to engage with the CLIA lab 6 more and more. But I would still kind of a differentiate supervising. I was -- I was more focused 7 on software processes people, not the medical side, which I didn't have the background. 10 And so as part of that sort of additional 11 engagement in the CLIA lab space in 2013, did you become familiar with the devices the company was using for different categories of patient samples in the CLIA 13 14 lab? 15 Α I knew that before, before -- I mean, in 16 2013, I was deep into it, but even before that, I knew 17 the different devices we were using in the CLIA lab and 18 what different devices we needed to develop different assay. So I had -- I had the background because 20 since -- between 2009 and '12, I was in a ton of 21 meetings with CLIA lab, with R&D people, so I had the 22 background. 23 So you would generally understand which tests O 24 would be run on which device at the time? 25 Yes. I would be able to -- I mean, I'm not a 0125 1 hundred percent, obviously. But some tests, you can 2 actually run on multiple. But -- but in general, yes. 3 BY MS. CHAN: Q With respect to the Safeway samples that were 4 being run in the CLIA lab in 2011 and 2012, what -what machines were being used or what analyzers were 7 being used to generate results? 8 They were all FDA-cleared commercial analyzers. So Advia 1800, Immulite. There was a 10 machine called DiaSorin. There was a machine called 11 Etimex, E-T-I-M-E-X. Those are the four big ones that come to my mind, but there were others. They were all 12 13 FDA-cleared or approved machines. 14 Were any of them modified for smaller sample

```
15 testing?
       A Not at that point. Not -- not for clinical
16
17 samples during that time.
18
       O And was Safeway aware that you were using
19 just -- you know, commercially modified FDA-cleared
20 analyzers to process those tests?
21
       A Well, at this point we were not -- these
22 devices were not modified. They were out the box just
23 the way FDA approved them.
24
       Q Right. And I was just wondering, did you
25 tell Safeway that you were using these commercially
0126
   available machines to process these blood --
1
2
          The unmodified?
3
      Q
          -- samples?
      A Yes?
5
          The unmodified?
      Q
6
      A Yeah. Because we were collecting
7
   venipuncture.
8
         BY MR. KOLHATKAR:
9
          Could you use venipunctured blood on the TSPU
10 in 2011?
11
       A Yeah. I mean, it depends on the assay. But
12 yes, when you validate an assay, you can define what
13 matrix you are going to develop the assay for. So you
14 can say venipuncture, or capillary, or anything else.
15
       Q So there's nothing specific about
16 venipunctured blood that would preclude the use of the
17 TSPU; is that fair?
18
          Technically speaking, yes, that statement is
19 correct. But however, once you have a large volume,
20 the novelty or the reason why, your TSPU goes down, it
21 reduces. Right?
22
       Q Sure. It wouldn't make sense to take a big
23 thing of blood to --
24
       A
          Yeah.
25
          -- to run a small sample; is that -- is that
0127
   what you're saying?
1
2
      A Correct. Yes.
3
          The -- at the time you understood, you know,
   in the -- in the 2013 time period, did you also
   understand which assays Theranos had validated on its
6
   TSPU?
7
      A I mean, I used to get updates. I was on many
   e-mails. So I would say specifically on TSPUs, the
   validation is -- there are two types of -- at least two
10 types of validation. One is: You validate stuff in
11 the R&D labs and then you validate something in the
12 clinical lab under CLIA guidelines. So they are two
13 different things.
       Q When did Theranos start validating assays
14
15 under the -- under the CLIA lab guidelines for --
         For patient testing?
16
```

- 17 -- for patient testing on a TSPU?
- 18 I would say summer of 2013 would be my guess.
- 19 It may have happened sooner, but I think that was the 20 time frame.
- 21 Q And were you kept apprised of the progress in 22 validating -- CLIA validating those assays onto the 23 TSPUs?
- A Loosely. I mean, I -- I used to pay 24 25 attention to see what was going on, but at that time, 0128
- 1 there was so much work that I was not monitoring on a day-to-day basis.
- 3 Q Was this around the same time that Theranos 4 began modifying commercially available devices?
  - Correct.

5

6

- What was the purpose of modifying the
- 7 commercially available device? Well, in one word, there was a high
- throughput. But back in 2011, we were looking at how we
- could process a large number of samples even just for
- 11 R&D purposes. But if we launched in the clinical space
- 12 and if a large number of finger stick samples came in,
- how would we process them? Obviously, one answer is:
- 14 TSPUs. But if you do the math and we looked at the
- 15 economics, it was going to be a slow process.
- 16 So we started looking at high throughput
- 17 solutions back then. And in 2013, as we closed in, we
- 18 looked at these different machines, and we said, "These
- 19 machines will work." I mean, you'll spend more R&D time
- 20 on that, obviously. But that was kind of the need for 21 it.
- 22 I guess, was there one person or one moment
- 23 when there was this breakthrough that these
- commercially available devices could be modified to --
- 25 to use smaller samples?
- 0129
- 1 A No. I don't think -- I wish there was one
- moment and one person. That would be a great person to
- hire. But no, this was a collaborative process. Once
- we started working on CTNs in 2011/2112ish -- because
- we knew we needed to ship the samples, so the version
- of CTNs that you see now, we started developing that in
- 7 2012 to be able to make sure can stabilize the sample,
- 8 it had anticoagulants, a bunch of other stuff that goes in CTNs to ship the sample properly was the time frame
- 10 we said, "Can we just pop this thing in and put it into
- 11 the big machines?" And we started looking at the whole
- 12 process flowing. And it happened over time.
- 13 So what were the modifications, I guess
- 14 broadly speaking, that had to be made to -- to get
- 15 blood from that CTN onto a -- and use it on a modified 16 commercially available device?
- 17 Yeah. There were quite a few significant
- 18 modifications. One was: We had to modify the software

- on the machine. The protocol that is used to process,
- 20 you know, the steps that are taken to process a sample,
- 21 we had to modify the software. We also had to modify
- 22 the preprocessing. Some of the steps that the device
- 23 would take -- the problem with these big machines is
- 24 that you lose a lot of blood. They kind of use blood
- 25 very cheaply. You know, they assume there's a lot of 0130
- 1 blood available, so even when you draw blood, there's a
- 2 lot of overage left at the bottom and people just throw
- it away. In our case, every drop mattered.
- 4 So we also created our own vessel to be able
- to eliminate or reduce the wastage of the blood. And
- then there were a few other pieces in the workflow that
- we had created. So some component -- hardware
- components we had to create that would mimic what a
- Vacutainer looks like. There was more software up
- 10 front we had created on this machine called Tecan which
- 11 is a preprocessing robot.
- 12 So those are pretty elaborate changes that we
- 13 had made with software and hardware pieces. We also
- 14 looked at chemistry and tried to understand the
- 15 chemistries will work the way we wanted them to work.
- So a lot of the chemists spent lot of time on 16
- 17 chemistries.

18

19

8

11

12

## EXAMINATION

## BY MS. WINKLER:

- 20 O In response to one of the prior questions in
- discussing TSPUs, you used the phrase "commercializing 21
- machines." What do you mean when you say 22
- 23 "commercializing machines"?
- 24 So, yeah, I think what I was referring to is
- 25 commercializing our test services. And commercializing 0131
- 1 services is: If you are providing a lab testing
- service to a patient which -- for which you get paid by
- 3 either Medicare or insurance or whoever else.
  - Commercializing machines is a very technical
- 4 5 term that FDA uses that you cannot sell a machine to
- any other lab or anybody else for clinical diagnosis
- 7 purposes without FDA's clearance or approval.

## BY MS. CHAN:

- 9 Q Whose idea was it to -- for Theranos to enter
- into the commercialization business? 10
  - You mean the lab business?
  - Into the lab business?
- 13 I think it's also over time. But I know
- 14 Elizabeth wanted to be in the services business for the
- 15 following reasons is: If you look at our healthcare
- system, somebody comes up with a cool product, and then
- you sell it to hospitals, or doctors, or whoever, and
- they charge up -- or labs, other labs, and they add a
- 19 margin. You know, and especially if it's new, chances
- are you're paying more. Right?

21 And one of the things that we really wanted 22 to do was: We said, "If we work hard using software, hardware, chemistry, and all that, and come up with 24 something that can reduce cost, we want to pass the 25 cost directly to the consumer and to the taxpayers, the 0132 1 cost savings." 2 And we did the math. And, for example, 3 Medicare pays, you know, a hundred dollars for a test that hospitals will charge you about \$2,000. Right? And an independent lab will charge you 50 to 60 bucks if you have a preferred contract with an insurance company, but they would still charge Medicare a hundred bucks. Right? 9 And when we launch, we said, "If we sell 10 these devices to hospitals, we know because of the utility of the device and the value add this brings, 11 12 they're going to amp up the pricing." And we didn't want that to happen. And we wanted to give Medicare --13 14 we said, "We're going to give taxpayers the lowest price," and that could only happen if you control the 16 pricing. 17 So that was the -- the thought behind 18 providing, you know, lab services so that we can 19 control the pricing. And when we met with the 20 insurance companies, for instance, even when we were 21 going to put our services on hospital sites, this is 22 unheard of, but we wanted to control the pricing because we wanted to make sure that we become a service provider in the lab. We will collect the samples, bring 25 them to us, but we would bill the insurance companies 0133 1 directly. 2 Same thing with physicians' office. And when we are a service provider in a doctor's office, what 3 other labs do is: They will bill the doctor, and in many states, doctors will mark it up and bill the 5 insurance companies. And we said, "No, we -- we are 7 going to bill insurance companies directly, which is 8 what we did." 9 So it was primarily to make sure that we 10 provide the service at price points that we wanted. 11 So I don't mean to belabor -- belabor this 12 point, but I'm still trying to understand. You know, 13 you've developed this device that's more of a, as you 14 said, you know, the patient -- it's a one sample at a 15 time --16 A Right. 17 -- device and the patient has control over 18 it, so it's more -- I think you alluded to envisioning 19 that patients would be able to have this at home --20 In the long, long run. Yeah. 21 Q In the long run?

22

Yeah.

Α

23 Okay. But why not just continue going down 24 that route versus going into the commercial lab 25 business where you would need a machine that would be 0134 1 able to conduct high throughput testing? 2 A I think it was more reaching out to more people faster. Because if you go to the patient path, like direct to consumers, sell the device at home, first of all, there were so many tests that we were 6 doing on the device that were -- in order for us to put 7 the device in somebody's home and do clinical diagnoses, we have to get it FDA cleared or FDA 9 approved, depending on the test. There are many tests 10 which are considered as complex. Even if you can do them simply, they are still marked as complex, like HIV tests. You want a physician involved. Back in the 13 days. Now it's changed in the last couple of years. 14 But -- and there are many other tests like this. 15 So even if you develop the assay, it doesn't

16 mean you're going to necessarily get a CLIA-waived designation right away. It could take many, many years. However, if you have an assay cleared by FDA, 19 you could put a TSPU in Walgreens and run it and get 20 the results to the doctor. So that's possible.

21 So it was more of a progressive path of how 22 do we reach the most number of people through the service? It's like, you know, iPhone 7 is a very cool product, but so was iPhone 1, and you don't get to 25 iPhone 7 until you ship iPhone 1 in some cases, some 0135

1 features. You don't wait until you're done with, you know, a 10-megapixel camera before you ship iPhone 10.

3 So from that perspective of a service that, you know, we know there's a pain in the market. We 5 know the people are, you know, going broke paying for 6 labs and healthcare bills. Can we get this faster in 7 the market? That was one purpose.

The other one was: This was -- even when we start selling to physicians, not everybody could afford to buy this. You know, like any consumer product, there's a cost curve. Right? As more people buy, it 12 gets cheaper. So that's what was going on during that 13 time frame.

- 14 Was there ever a thought in your mind that --15 that the company would be developing the TSPUs, that it 16 could conduct high throughput testing?
  - A On TSPU?
- 18 0 On TSPU.

17

18

8

9

10

- 19 TSPU was designed for discrete processing.
- 20 It's possible. The scientists and engineers had a
- 21 discussion for high throughput. But -- and may -- they
- 22 may even have talked to me, but sitting here today, I
- 23 think our focus of TSPU was discrete processing. 24
  - So it just seems like when you're going into

25 the commercial lab business, if you don't have a 0136

1 long-term plan to develop a product that can do that

high throughput testing, then you're essentially -- was

the company thinking about essentially -- I guess I

just don't understand why you would go the commercial

5 lab route if you don't have a product that is going to

6 get you there and you're always going to be using, you

know, the commercially available machines? 7

Yeah. I think our plan was that we will have a device in Walgreens locations in medium, long term, you know, five, six years or whatever to however long it took. And that would reduce the number of samples coming in to a central lab. So that was always the plan. So it was not necessarily that we are not doing TSPU anymore, we will never be in the field anymore.

15 That was still the plan. The other thing is: Yes, it is not ideal for 16

8

3

6

7

9

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12

16

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20

21

23

17 batch processing the TSPUs, but you could still use 18 them. I mean, we actually had a prototype of a robot 19 that could just pick up a cartridge and put inside the 20 TSPUs and we would send it to control when it's done, and take a cartridge, throw it away. It was doable. 22 But that meant -- and in the long run may have even been economical, but it just meant a hell of a lot more 24 work for us on the software side for sure.

25 Plus, we found a good solution, and, you 0137

1 know, by creating this platform, we knew we could scale it beautifully.

## BY MR. KOLHATKAR:

4 Q I'm sorry, what do -- what do you mean by 5 your -- "a good solution"?

A Modifying the predicate devices and putting more technology on it. It's like taking Linux and putting on a different hardware. Once we did that, we knew we can do that more and more if we wanted to.

And we also had -- it was not just about the third-party Siemens or, you know, vendor devices. We also this -- a general purpose robot that we referred to called Tecan. Tecan is basically a machine the size of this table (indicating), this piece of the table 15 (indicating). And it's a general purpose robot. You can program it to do anything you want, like batch 17 processing.

So that was always an option in front of us 19 that, you know, this is a no-brainer. And at some point, if you retire, you know, the third-party machines that we've modified that we bought from other vendors, Tecan is going to scale. And we used to call that project T. rex. Unfortunately, another code name.

24 But we were spending resources on that as a 25 Plan C that if we wanted to scale around a truly 0138

```
independent platform, batch processing, this would do
2
   that.
3
         BY MS. WINKLER:
4
          That -- that would require stacks of TSPUs?
5
          The one -- yes. One plan would require
   stacks of TSPUs. The third one, the Tecan that I was
   referring to, that doesn't. That -- that works like
   the modified third-party machines except there's no
9 third-party machines, it's just a lot of our software
10 that's controlling the robots doing what the machine
11 would do inside the machine.
12
          And that would have been theoretically
13 capable of a high throughput?
14
       A Yeah. We tested it. We tested it. It was
15 capable of high throughput. We actually had a
   couple -- a couple of assays that we pushed it all the
17 way to end on that to know that it was going to work.
18
          BY MR. KOLHATKAR:
19
       Q I'm going to hand you a document that's been
20 previously marked as Exhibit 215.
21
      A Sorry.
22
          MR. COOPERSMITH: Thank you.
23
          BY MR. KOLHATKAR:
24
       O Just for the record, 215 (sic) is a document
25 Bates-stamped SEC-PRM-E 3430.
0139
1
         Mr. Balwani, I'm not going to ask you to read
2
   this entire thing.
3
      A
          Thank you.
4
      Q
          But generally, do you recognize what this is?
5
      A
          I do.
6
      O
          What is it?
          This is the complaint -- or one of the
   complaints filed by PFM and Partner Investments, L.P.,
   against Theranos, Ms. Holmes, and myself.
10
          MR. COOPERSMITH: So read -- read it
11 carefully because he may have some questions.
12
          BY MR. KOLHATKAR:
13
       Q And, you know, I think my question --
14
       A Oh, sorry.
15
       Q My question was even flawed before that. I
16 think I was referring to --
17
       A I was just reading --
       Q -- Exhibit 217, not 215 which you have in
18
19 front of you.
20
          MR. COOPERSMITH: 217?
21
          MR. KOLHATKAR: 217. Right.
22
         THE WITNESS: Yeah. It looks like our
23 responses and objections to plaintiffs' first set of
24 interrogatories.
25
          BY MR. KOLHATKAR:
0140
1
      Q Do you know if you reviewed these at the time
2 they were -- at the time they were filed in the
```

```
lawsuit?
         I believe I did.
      Α
5
      Q If you look at the page ending in 3465. 3464
   is the interrogatory and 3465 is the -- the answer.
6
7
         The interrogatory asks for the versions of
   the TSPU that were -- that were used for --
8
9
      A Uh-huh. Yes.
10
          MR. COOPERSMITH: I'm sorry, what page are
11 you on?
12
          MR. KOLHATKAR: 3464 and 3465.
13
         THE WITNESS: There's a -- it's tagged 36.
14 36 is --
15
          MR. COOPERSMITH: I can't read it. Yeah.
16 Okay.
17
          MR. KOLHATKAR: Page 37 -- 36.
18
          MR. COOPERSMITH: No, I can see it.
19
         THE WITNESS: Page 36.
20
          MR. COOPERSMITH: Okay. Great. Thank you.
21
          BY MR. KOLHATKAR:
22
       Q The interrogatory refers to what TSPUs were
23 used for -- for patient sample testing following
24 January 1, 2013.
25
          Do you see that the answer there is that the
0141
   3.5 was the one that was used?
1
      A
         Yes.
3
          Were you aware of any other TSPUs being used
   for patient -- patient testing in the CLIA lab?
      A Not at this point.
         From 2013 to the present, was any other
7 version used -- or how about 2013 to the time you left
8 the company?
9
      A I don't recall. I don't think so.
10
          BY MS. CHAN:
11
       Q Was it your understanding at the time in 2013
12 and 2014 that the 3.5 TSPU was being used for patient
13 testing?
14
      A Yes.
15
          BY MR. KOLHATKAR:
16
       Q And did you understand in -- in 2013 and 2014
17 that the -- the other 4 series devices you mentioned
18 were not being used?
19
      A
          Yes.
20
          The -- the response also lists the -- the
21 tests that were -- that were run on the TSPU. Do you
   see that? So it's on Page -- the page ending 3465 to
23 3466. There's a bullet point list of tests.
24
          Yeah, I see that.
25
          Was it your understanding in -- in 2013 and
0142
1 2014 that -- that these were the tests that were
2
   capable of being run on the 3.5 in the CLIA lab?
3
      A No, that's incorrect. The capabilities went
4 way beyond this. I think this answer says what tests
```

- 5 were you running, if I'm not mistaken. I can read the
- 6 question again. "In our direct testing menu, the
- 7 Theranos TSPU --" These were the tests that we were
- 8 running in the CLIA lab at that point. The capability
- 9 of TSPU was significantly more.
- 10 Q Were there any other tests other than the
- ones listed here that were, as you described earlier, CLIA validated for use on the TSPU?
- 13 A You know, I don't remember the list. I think
- 14 we had 12, or 14, or 15 in that range tests validated
- 15 on 3.5. So -- eight, nine, ten, eleven, twelve. Yeah,
- 16 this seems right.
- 17 Q And you mentioned that the 3.5 was capable of
- 18 a lot more. Did you have an understanding why the 3.5
- 19 wasn't used for additional tests?
- 20 A Yes. It's a combination of decisions. One
- 21 is: You need to -- even if you have assays validated in
- 22 R&D, and we had many more, before you bring them to a
- 23 CLIA lab, you have to go through a process, the CLIA
- 24 lab validation process. And our plan was: Over time,
- 25 as we added more assays, that's the path we were going 0143
- 1 to follow.
- 2 The other reason is: Like I mentioned
- B earlier, there was a large number of other assays for
- 4 which we had implemented our technology on top of the
- 5 combination of Tecans and third-party modified machines
- 6 that allowed us to process samples in high throughput.
- 7 So that was the other reason why we focused on these
- 8 assays in 3.5s.
- 9 Q And maybe it makes sense here to talk about 10 sort of the different CLIA samples that Theranos was 11 processing.
- Was Theranos, in the 2013 and on time frame, processing samples in its CLIA lab both from finger
- 14 stick and from venous blood?
  - A Yes. And from urine and other matrices.
  - Q Sure. And I'm trying to focus on blood.
- 17 A Sure.

15

- 18 Q The -- is it true that finger stick samples
- 19 could either be run on the TSPU or modified
- 20 commercially available devices?
- 21 A And like I said, noncommercially available
- 22 devices like Tecan which are not designed for any assay
- 23 processing, but we can modify them, we can program them
- 24 to do whatever we want them to do. So in -- you are
- 25 broadly right. TSPUs, modified commercial devices, and 0144
- 1 some third-party devices.
- 2 So, for example, if HbA1c came, there was a
- 3 test which is available, we'd run a small sample on a
- 4 third-party machine. Like I said earlier, there were
- 5 some machines -- small machines that were in the CLIA
- 6 lab for workflow purposes. It was just more efficient

to put them there. So that's -- the finger sticks were also being processed on those. 9 Q Okay. So would an example like a -- be akin 10 to, like, a glucose meter? 11 Something like that. 12 So you could run a finger stick sample on Q 13 that? 14 A Correct. 15 O Were venous draws ever used on TSPUs in the 16 CLIA lab? 17 A Yes. 18 For what tests? O 19 Probably for these tests, the ones that I 20 listed here. 21 O Okay. So in other words, the fact that the blood was drawn venously didn't mean -- didn't limit 23 the -- the analyzer that was -- the CLIA test was run 24 on? 25 A Yeah. It depended on the validation 0145 1 approach. If the assay was validated also for 2 venipuncture, then the answer is: Yes. There's also another layer. It also depended on how the sample -what was the sample type. So even when you collect whole blood, you can do plasma or serum samples. So again, if they were -- these assays were validated for the right sample matrix, only then you can run them on the TSPUs. 9 Q Did -- did Theranos use -- use venipunctured blood on the modified commercially available devices? Yes. We validated those assays for 11 12 venipuncture also. Correct. 13 Q So -- so venipuncture could be used 14 essentially on all analyzers that Theranos had? 15 Theoretically, yes, if the assays were 16 validated being the qualifier. 17 O Do you know if Theranos validated the assays 18 on -- on all categories of devices? 19 I don't recall that level of detail, but I 20 would think that most assays were validated would be my guess, but I would not be a hundred percent sure. And again, it's not just venipuncture. Like I said, it's 23 the right matrix -- sample matrix, serum or plasma. 24 So you can collect serum and plasma from 25 venipuncture, and then you could have some assay, my 0146 understanding is, validated from serum but not from plasma and vice versa. So even though, technically speaking, you can run venipuncture on a TSPU or a modified device, but you wouldn't because the matrix is 5 wrong -- sample matrix is wrong. 6 Q I'm sorry, can you explain that to me one 7 more time. 8 A Sure. Sure. Speak slowly also.

9 When you draw blood from venipuncture, from 10 somebody's arm, it's not just called venipuncture blood. Right? There are different tubes, if you 12 recall, maybe you guys haven't been to labs yet, but 13 you will. And if you go there, when they draw blood, 14 they use different types of tubes. Some are purple 15 top, green tops, tiger tops. They're different tubes. 16 And they have different purposes. 17 And -- and so they're not all the same. 18 Right? So you could draw blood from an arm and go into 19 a purple top and green top. And one has to be spun 20 down right away, centrifuged right away. The other one 21 has to be -- be sitting for 10 minutes and then spun 22 down. Some you don't spin down at all because you'll 23 destroy the blood. That's my high-level understanding. 24 Right? 25 And the assays running on machines are 0147 validated for different tubes. To simplify my answer, 1 sample matrices. Some tubes are serum, some are plasma, some are something else. Right? So just 3 because an assay is said to be validated from venipuncture on a device doesn't mean it can run serum and plasma. Make sense? 6 7 Q Okay. 8 It depends on how you collect it. And there are technical reasons why you would use one device 10 versus another. In most cases, or many cases, many devices are either only -- serum-only devices. Right? 12 And you -- if you put plasma on them, wrong result, and 13 vice versa. 14 Did Theranos ever disclose to Walgreens what 15 devices it was use -- using to run different test 16 types? 17 A No. We would never do that. 18 O Why not? 19 Well, there was -- there was a lot of trade 20 secret here. That's the one -- number one. Besides, 21 Walgreens was our distributor, not necessarily owned -a company owner. Walgreens was also in the habit of, let's say, copying other people's idea. If you just 24 walk down a Walgreens store two blocks from here, you 25 will see that there's Robitussin and, right next to it 0148 1 is Walgreens' Tussin. It even looks like Robitussin. 2 So they take a lot of products with high volume, and sooner or later, they OEM it or private label it. During our discussion with Walgreens, it was absolutely clear they wish they could be doing the lab themselves, and at some point we always thought they would do a lab themselves. And they were just going to 8 be like a sponge and learn from us. 9 In 2010, 2011 when we were a tiny company, 10 Walgreens brought a lot of their executives to spend

11 time with myself and Elizabeth. And we would talk

12 about software and data, and they would be jotting

13 notes. And we were small, so we had to share the

14 details at that time, so -- but we knew they were going 15 to copy our stuff.

And over time as they started, you know,

17 building their iPhone app, it had a lot of my ideas in

18 there. So we were very cautious what we were going to

19 share with Walgreens, and we were absolutely not going

20 to share our trade secrets with Walgreens.

21 And to add to that, when we were doing the 22 contract negotiations with Walgreens, they had asked 23 access to the labs, and I said nonnegotiable. No.

24 What about Theranos's board, did you share 25 with the board the fact that Theranos was -- was only 0149

1 using the 3.5 for about 12 tests?

A No. I mean, I don't think we ever, in my 2

3 memory, we restricted our discussion to this test or

that device. I mean, the board walked through our lab.

5 They saw all the machines. These machines are pretty

6 big. They're like elephants. You can't hide them, so

7 they are there.

8

16

But our discussions with the board were very frank, and we would provide them all the updates in our 10 board -- in our quarterly meetings.

11 Q Did you ever update them on the fact that 12 Theranos was -- had modified commercially available 13 analyzers?

14 A To the best of my recollection, yes, we told 15 them we have high throughput solutions in the lab. I

16 actually shared with them my -- our Siemens contract in

17 one board meeting. That we are a high-volume vendor

18 with Siemens. We have been given a high volume

discount. And that's because we buy so much reagent 19

20 from Siemens that we are a preferred vendor. And I had

21 picked -- I actually showed them the -- our price

22 sheet.

10

23 And I remember one example. There's a test 24 called CBC, complete blood count, and complete blood 25 count is one of the most commonly ordered tests. We 0150

1 used to sell it for 6 bucks, I think, on our website.

UCSF sells it for \$1,200. And we had negotiated the

price of that to \$0.18. And I thought it was worth

sharing with the board something we are selling for 6

bucks, we are paying \$0.18. For the reagents.

Obviously, there's other costs. That we are paying 7 \$0.18.

8 So I shared that with board, so I believe

9 they were fully aware.

O Do you remember when that board meeting was?

11 I don't remember a specific board meeting,

12 but I think -- sorry.

- 13 Just I mean in terms of what year or --14 Probably end of 2014 would be my guess 15 because that's when we got that high volume discount 16 from Siemens. 17 BY MS. CHAN: 18 Q You mentioned that you shared the Siemens 19 contract with the board and also told them about the 20 discounts that the company was receiving for reagents. But do you remember telling the board that the company was modifying commercially available machines for use 23 in patient testing? 24 A You know, it was -- the word "modified" was 25 not -- I didn't used to use that word that often. Ours 0151 1 was: We have high throughput solutions in the lab, is what I used to use. Obviously, TSPUs is not high throughput, but a single -- one sample at a time. That we were doing batch processing and we have solutions in 5 the lab. 6 When we walked through the lab with the board, I showed them the -- the Tecan device that I 7 earlier talked about, the high throughput sample processing. This is where the CTNs come in. They go into this tray. We put -- take all the CTNs and we run 11 it through that machine. So I walked them through the 12 workflow, so --13 Q But you never told them that Theranos was purposes? 15 16 A The reason -- I mean, I think that 17 "modifying" is not necessarily the right word here. 18 The reason is: We are -- that we're doing a lot more 19 than modifications to the -- to the machine. We also
- 14 modifying commercially available machines for testing
- 20 had the software outside the machine. We had the new
- 21 workflow. So I showed them the whole workflow, and --
- and I don't remember if I told them, "By the way, this
- is the protocol that we have modified this machine" or
- 24 "We modified the software in this machine" or not. You
- 25 know, the board was not necessarily interested in that 0152
- level of detail. They never engaged with me at that 1 2 level of granular detail.

# BY MR. KOLHATKAR:

3

10

- Q Did you ever disclose to any investors or 4 5 prospective investors that Theranos was using third-party commercially available devices in its CLIA 6 7 lab?
- 8 MR. COOPERSMITH: Do you mean modified or unmodified?

# BY MR. KOLHATKAR:

- 11 Why don't we start with unmodified.
- 12 Can you repeat the question.
- 13 Sure. Did you ever disclose to any investors
- or perspective investors that Theranos was using

15 third-party unmodified devices in its CLIA lab? 16 You know, I don't recall any detailed 17 conversations because we were doing venipuncture, and 18 so I don't think that was a topic of discussion that 19 came up. But in my mind, it was implied that we had 20 because it was on our website that we do venipuncture. 21 I may have mentioned that we have contracts with 22 Siemens. Actually, you know what? I actually mentioned 23 several times to the investors that, you know, we have 24 devices from Siemens, from Abbot, from Roche, you know, 25 labs, and we know exactly how they work. So I did 0153 1 mention that we have those labs -- their machines. 2 Q I hear your answer at the beginning, you 3 mentioned that Theranos had the machines, but did you ever tell any investor or prospective investor that Theranos was using those machines for patient testing? 5 6 You know, I don't recall any specific 7 conversation where we went into that level of detail. But my recollection is that they knew that we were doing venipuncture and we were using commercial 10 machines. 11 Q And I'll just ask -- it's the same as my 12 initial question, but for the modified devices. Did you ever disclose to investors or prospective investors 14 you were using modified commercially available devices 15 in the CLIA lab? 16 A Our investors, the conversation that I used 17 to have with them was: "We have high throughput 18 solutions in the central lab model." So we -- because the discussion used to often come around one sample processing at a time. You know, these machines are discrete machines. So we'd just say, "No, we also have 22 technology in the lab that does high throughput 23 processing." And I would do the math for them and say, 24 "We can do 240 samples per day in that high throughput 25 solution." I didn't name the devices by name because I 0154 considered that as our trade secret, and I wanted to 1 protect them that way. 3 Q Did you -- did you share information about the TSPU with investors and prospective investors? 5 A What kind of information? 6 Q The fact that Theranos was using it for --7 A Yes. 8 -- sample testing? O 9 Yes. 10 O Was that considered a trade secret at the 11 time as well?

Well, most of the time, we used to have TSPUs

13 in the room when we were talking to the investors. Not

always, but, you know, we used to have the TSPUs.

So the discussion was: "Are you using

16 TSPUs" -- I mean, first of all, I don't think any

12

14

- 17 investor said, "Are you using that machine or TSPUs?"
- 18 Our conversations with investors were very long term,
- 19 you know, vision conversations. We were always talking
- 20 about, you know, what the impact will be in the
- 21 emergency room, in ICU. We used to talk about the
- 22 scenarios, about Walgreens. You know, what does it
- 23 mean -- when a patient comes to Walgreens to get a test
- 24 done, goes to the doctor's office, what does it mean
- 25 for an insurance company? Well, you just reduced them 0155
- 1 a visit -- a physician's office visit. Because in one
- 2 visit, they have their lab results before they see the
- 3 patient.
- 4 So we used to talk about the conversations on
- 5 impact, long-term vision, what it would mean when the
- 6 device is in a home. I don't recall any investor who
- 7 said, "What machines are you using in the lab," or, you
- 8 know, showed any great interests into the operations of
- 9 the lab.

# 10 BY MS. CHAN:

- 11 Q Did you ever tell prospective investors or
- 12 existing investors that the TSPU was only validated
- 13 under CLIA to perform about 12 tests?
- 14 A I don't recall that conversation, no. I
- 15 think we used to talk about we have -- we were -- we
- 16 were clear about that we are -- we have 60 or 70 or 80,
- 17 depending on the time frame, how many tests we had from
- 18 finger stick. So we used to say, "Yeah, we have 60, 70
- 19 tests we used for finger stick using Theranos's
- 20 technology," but we didn't name device by device,
- 21 saying, "We have ten on this device, five on that
- 22 device, three on this device." No, we didn't. Well, I
- 23 didn't for sure.
- 24 Q Did you ever tell Walgreens that the TSPU was
- 25 only validated under CLIA to perform 12 tests?
- 0156
- 1 A We would not tell that to Walgreens period.
- 2 That was confidential information. No. I mean, in my
- 3 view, it was none of Walgreens' business. We were the
- 4 lab providing a service. Even if the Walgreens' guy
- 5 said, "Which commercial machines you are using," and
- 6 they knew we were using commercial machines because our
- 7 lab in Arizona was moderate complexity, I would not
- 8 tell them we had bought something from Siemens.
- 9 The reason is: Once you show somebody a
- 10 roadmap of what you're buying, they know you've done a
- 11 ton of research buying that thing. And it's a common
- 12 thing in IT. When you pick a vendor or when you pick a
- 13 hardware, you -- you know, you did a lot of research on
- 14 that before you bought it.
- 15 So to me, that information was just -- even
- 6 the commercial machines, who our vendors were, was
- 17 proprietary information I would not share with
- 18 Walgreens.

```
19
          BY MR. KOLHATKAR:
20
       Q You mentioned an answer a minute ago that you
21 were sort of open about the fact that the company used
22 venipuncture. Is it fair to say that in your mind,
23 that meant you were being open about use of other kinds
24 of analyzers?
25
       A Yes. I mean, depending on which time. But
0157
1 once we were -- were in -- in Arizona, which people
   knew was a moderate complexity lab, people in the
   industry know moderate complexity means you can only
   run FDA-cleared devices there. You cannot run LDTs
5 there period.
         At that point -- I mean, the Walgreens guys
6
7
   asked me what kind of lab it is. "Moderate
8
   complexity."
9
         "Oh, so you're only running commercial
10
   devices there?"
11
          "Yeah, so that we can process venipuncture
12 samples and return them right away."
13
         THE REPORTER: Can you slow down, please.
14
         THE WITNESS: Sorry. Do you want me to back
15 up?
16
         THE REPORTER: No.
17
         THE WITNESS: Okay. So that was, you know,
18 common knowledge in my mind.
19
          BY MR. KOLHATKAR:
20
       O So how about before the -- the Arizona lab,
21 did you -- did you ever -- I guess, what about
   venipuncture, in your mind, disclosed the fact that the
23 company was using commercially available machines?
24
       A
          To who?
25
          To investors or prospective investors.
0158
1
      A I think the point about commercial machines
   was clear in my mind. Because when we spoke, we said,
   "Yeah. We use machines from other vendors. We also do
4 venipuncture." But I would say 99 percent of our
   conversation was about the future applications of
6
   software and technology.
         So no investor ever dug into that by saying,
7
   "Tell me which vendors," or "Let me understand
   correctly. Are you using venipuncture here or there?"
10 In our mind, it was implied that, you know,
11 venipuncture, commercial devices.
12
          And -- and many times, we would -- we would
13 share that. I mean, once, like I said, the moderate
14 complexity lab opened, then it was a no-brainer, in my
15 mind.
       Q I guess I understood your testimony earlier
16
17 to suggest that you could use venipuncture blood on
   a -- on a TSPU.
18
19
         For the right matrix, yes.
20
          Under the right situation, if you validate
```

```
21 the right assay?
22
           Yes. Yes.
23
           So -- so -- and I guess I'm trying to
24 understand why, in your mind, venipuncture implies
25 the -- the use of a commercially available analyzer.
0159
1
          The reason is the following: When we met
2
   with investors, we used to, you know, obviously talk
   about Phase 1 and Phase 2, the Normandy or D-Day, on
   site and central -- centralized lab model in detail.
5
         "What are we doing?"
6
         "Well, right now, the samples are coming to
   our central lab. We get venipuncture samples, we get
   finger stick samples, urine samples, and we process
8
   them in high throughput. We do batch processing" --
          THE REPORTER: Slow down.
10
11
          THE WITNESS: -- "because samples come on a
   plane and they come in a batch."
12
13
          So -- so we used to talk about that. And in
14
   that context, we used to say, you know, "We have
15
    machines from every vendor." So it was a five-second
    conversation. Nobody paid any more attention to that.
16
17
          What was the second part of your question?
18
          BY MR. KOLHATKAR:
19
          I don't know that there was a second part, I
20
   guess.
21
           Sorry.
       Α
22
          I'm just trying to understand why, if -- if
   you could use venipuncture blood in theory on the TSPU,
23
24 why does the existence of venipuncture at Theranos
25 imply the -- the use of commercially available devices?
0160
1
      A Yeah. I don't think it necessarily implies
2 that, but I think that the conversations we had with
   investors, again, not Walgreens, I'm not talking
   Walgreens, with investors was: "We have high
   throughput solutions in the CLIA lab." Because we used
5
   to talk about how we would scale TSPUs to process, you
7
   know, 10,000, a hundred thousand samples coming in.
8
         We said, "Oh, no, TSPU is not the only way.
9
   We have other technologies that allow us to scale. And
   we also buy product from commercial vendors."
10
11
          And in some cases when we walked them around,
12 they would see those machines in the lab.
13
          BY MS. CHAN:
14
           Which investors would you tell that you had
15 these other machines that were performing testing for
16 Theranos?
17
       A I think that was part of the general flow of
18 the conversation because when we were talking about "We
    are in Phase 1. It's a centralized lab model. The
20
    samples come here. We get venipuncture, urine
    samples," you know, so in that context -- I actually
22 remember talking specifically about large volume
```

- 23 samples. We used to say, "When we get them, you know, 24 we just run them on commercial machines because there's 25 no point aliquoting, say, something like urine in a 0161 nanotainer and then running it on TSPU. There's no 1
- 2 value add."
- 3 So I would use those examples to illustrate 4 that.

### BY MR. KOLHATKAR:

- Q Who do you recall using that sample?
- You know, not any one. But I would say in 8 almost every conversation, when the conversation got deep into the flow of the lab, I would use that
- 10 example. It's a common example that I usually used.

#### BY MS. WINKLER:

- Q Did any of the material that you shared with 12 13 investors or prospective investors mention third-party 14 machines?
- 15 A I don't know. I'd have to see the materials. 16 I don't remember.

# BY MS. CHAN:

- 18 So you mentioned that the TSPU was capable of 19 conducting more tests than the 12.
- 20 A Yes.

5

6

7

11

- 21 Why weren't more tests brought on to the TSPU 22 and validated under CLIA?
- A Yeah. It was a matter of resources and 23 24 timing. As we added more tests to the menu, we were --25 we also started doing more venipuncture. Because as we 0162
- 1 started getting more experience from the market, we
- wanted to see -- we had a lot of theories before we
- launched that what is going to be the most important
- element of all the service to the people? Is it going
- to be small volume? Finger stick? Is it going to be 5
- price? Is it going to be transparency? Is it going to
- be access? Convenience? So a lot of different things. 7
- 8 And we had month-long discussions with
- Walgreens around those. Some people used to say, "Oh,
- 10 the most important thing is convenience for the
- physician. Electronic integration." And some would 11
- 12 say, "No, the most is the hours." I personally believed
- 13 it was going to be the hours and the transparency of
- 14 the prices.
- 15 So we were learning as we went. And as we 16 gained more and more experience, that data point 17 started validating that yes, finger stick is a good
- 18 differentiator, but what most people care about in the
- 19 market is they're getting crushed under healthcare
- 20 bills. So the fact that we are giving them price
- 21 transparency and low prices, this is how we were able
- 22 to get into a physician's office in one call.
- 23 I mean, we would go there. Our price sheet
- 24 was our calling card. And when people said, "If you

25 can save my patients money and this means they will 0163 1 come back to me for a repeat visit, I'll send you patients." 3 So we got a lot of feedback as we moved 4 along, and we learned that the number of tests that we had already in place were sufficient. Earlier, I mentioned that about 60 to 70 tests was actually not 7 sufficient, but it was a good start. But 60 to 70 8 tests covered about 60 to 70 percent of the visits. There were more take -- given the geography. We were 10 going to add more tests to the menu depending on which path we took in the market with Walgreens or a contract 11 12 with Walgreens. So we were going to add more, but this 13 learning and -- gave us a little bit more breathing 14 room to be able to say, "Let's focus on the long run." 15 For example, there was one team that was 16 focusing on certain chemistries, and we had a solution 17 for that now with the -- what we are referring to as the modified commercial devices. And we said, "Okay. 19 Let's put the team on the longer term, on Phase 2. 20 Let's not even worry about Phase 1 for this team." 21 So those were the kind of decisions we were 22 making. 23 So you mentioned there was sort of a change 24 in the business strategy because you learned that 25 people were valuing other things more than finger 0164 stick? 1 2 A Yeah. 3 For the -- the 60 to 70 tests that you said Theranos was offering, so were the remainder being done on the modified commercially available machines? A No. The remainder were commercial 6 venipuncture assays unmodified. Some may have been running on modified, but in general, the remainder were all on commercial venipuncture machines, like 10 nonmodified machines. 11 So then why use the TSPU at all? Why not 12 just phase that out and just concentrate the company's 13 efforts on using commercially available machines with, 14 you know, price transparency and speed? 15 Yeah. And not use finger stick at all, you 16 mean? 17 Q And not use finger stick at all. 18 Finger stick was still a good differentiator, 19 number one. Number two, finger stick was the long-term path for the company because in the long term, we wanted to be near the patient. That's the Holy Grail. 21 22 If you look at -- even though we were processing the 70 assays in the clinical lab, I would say, you know, 24 two-thirds of our R&D was focused on finger stick. 25 That was the long term for the company for -- and by 0165

"long term," I mean, you know, five years and beyond, four years and beyond, maybe ten years. So the Phase 2 2 3 and the Walgreens. 4 You know, being able to be in NICUs, that was 5 near and dear to my heart. NICUs, the neonatal ICUs. 6 And some of the babies are born smaller than the palm 7 of a person, and they have no blood to give. And to be able to do a finger prick or a small heel prick on them and be able to the run the test, it will save, you 10 know, I thought millions of lives. 11 So finger stick was still the central for the 12 long term for the company. 13 And you were still doing some finger stick 14 samples on the modified commercially available 15 analyzers --16 A Correct. 17 O -- right? 18 A Yes. 19 Okay. So then -- so why not just phase out 20 the TSPU in favor of a more high throughput situation, which is the modified commercially available machines 22 that could run finger stick samples? 23 That's a great question. The reason is the 24 following, and this is also part of the -- the reason 25 why we kept this under -- as our trade secret: Nobody 0166 knows what machines you can modify. You literally have 1 2 to go through one machine at a time to see if it is modifiable. Right? It's not like a computer you just buy and modify it and run your OS on this. We went 5 through a lot of research. We looked at a lot of machines online and this and that. 6 And you pick a certain set of machines that are modifiable. They're open. They fit your 9 specification. The detection systems are sophisticated 10 enough to be able to detect the lens or the signal from 11 the blood. And not many machines can do that. There 12 are very few machines that are modifiable and sensitive 13 enough to be able to run finger stick testing on. 14 And the tests that we were running here, the 15 immunoassays, this category actually is one where TSPU 16 really shines because we had a lot of experience there. 17 And we looked at other machines that could do it, but 18 they were not quite there yet. 19 MR. KOLHATKAR: Why don't we go off the 20 record at 12:19 p.m. 21 THE VIDEOGRAPHER: Off the record. 22 (Whereupon, at 12:19 p.m., a luncheon recess 23 was taken.) 24 AFTERNOON SESSION 25 THE VIDEOGRAPHER: It is 1:11. We're 0167 1 rolling. 2 MR. KOLHATKAR: Back on the record at 1:11

```
3
   p.m.
4
         BY MR. KOLHATKAR:
5
      Q Mr. Balwani, we didn't have any substantive
   conversations during the break; is that correct?
6
7
      Α
          Correct.
8
      Q
          Before we broke, we were talking a little bit
   about -- I think you sort of mentioned that validation
10 has two different purposes. One was for the CLIA lab.
    Can you remind me what the other one was.
12
       A For our research and development. When you
13 take an assay through R&D, there are many validation
    steps, and different teams refer to their task as
15
    "Okay. I'm done with this assay" as a validation step.
16
          So when a team is done with an assay on the
17
   bench versus different places, they will call it a
18
   validation input.
19
       Q What was your understanding in the, I guess,
20 2013/2014 time period of -- of what the -- what the
   difference was between the two in terms of actual steps
22 to be completed?
23
       A I mean, there are significant differences.
24 CLIA lab has its own protocol and -- I mean, I don't
25 know exactly the details of every step in the CLIA lab
0168
1
   or R&D. But I know in the CLIA lab -- they have to
   follow a certain SOP in the CLIA lab to validate an
   assay, including some patient samples they have to run
4
   by CLIA lab personnel.
5
         So there are things they have to do to
   validate assay in the CLIA lab. And they have to bring
   patient samples to make sure they cover a certain range
   of samples. I mean, that's, like, my high-level
   understanding that I know because they are a
   significantly different process.
10
11
          Who -- who at the company, I guess, would
12 know the difference between the two?
           There will be quite a few people. I mean,
13
   (b)(6); (b)(7)(C)
14
                                    at Theranos would
15 definitely know. And assay by assay. There were other
16 individuals who were responsible for different assays
17
    would also know. So people who are developing the
    assay in the R&D team, the product development team,
19 they would know what is their protocol for validating
20 the assay. And they had a validation report that would
21
    come out at the end of the process.
22
          And then many of them over time had also
23
    acquired the skills to know what a clear validation is
    going to look like. So there will be many, many people
25 who would know.
0169
1
          Who has the ability to sort of sign off and
   say something was CLIA validated at Theranos?
3
          Only the CLIA lab director can do that.
4
         BY MS. CHAN:
```

5	Q Who were the assay leads during the 2013/2014
6	time frame?
7	A So they, I think, changed over time because
8	as the team grew, people changed. But in the
9	immunoassay team, we had a person, her last name was
10	(b)(6); (b)(7)(C), first name was that was the first name.
11	Her last name was (b)(6); (b)(7)(C) I think. There was
12	another person whose name was (b)(6); (b)(7)(C) who was in the
13	general chemistry team.
14	Then we had the nucleic acid amplification
15	team I think had two or three people. There was a guy
16	
17	lead or not, (b)(6); (b)(7)(C)
18	(b)(6); (b)(7)(C)
19	The hematology team had (b)(6); (b)(7)(C)
20	(b)(6); (b)(7)(C) But these roles were
21	evolving over time. Another person, his name was (b)(6);
22	(b)(6);(b)(7)(C) he was the lead for
23	THE WITNESS: Should I spell those?
24	THE REPORTER: Yes, please.
25	THE WITNESS: Okay. Let me start from the
01	70
1	start. (b)(6); (b)(7)(C)
2	(sic). $(b)(6); (b)(7)(C)$ Then
3	(b)(6); (b)(7)(C) easy to
4	spell. And there's one more.
5	BY MS. CHAN:
6	Q (b)(6); (b)(7)(C)
7	A (b)(6); (b)(7)(C) yeah. That one I haven't spelled
8	for you. (b)(6); (b)(7)(C) and last
9	name is [b)(6); (b)(7)(C)
10	And let's see, there was another person, and
11	his name was (b)(6); (b)(7)(C)  He was also deeply
12	involved in immunoassay, but I don't think he was a
13	[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
14	
15	
16	
17	he was the team lead for the oh, he was involved in
18	~ <u> </u>
19	
20	
21	
22	this artificial life in-house. He was leading that
	team.
	team.  Those are the few names that come to mind.
24	team.  Those are the few names that come to mind. I'm sure there are others.
24 25	team.  Those are the few names that come to mind.  I'm sure there are others.  Q Was there a lead for the ELISA assays?
24 25 01	Those are the few names that come to mind. I'm sure there are others.  Q Was there a lead for the ELISA assays?
24 25 01 1	Those are the few names that come to mind.  I'm sure there are others.  Q Was there a lead for the ELISA assays?  A That's the immunoassay. That's the (b)(6), (b)(7)(C)
24 25 01 1 2	Those are the few names that come to mind.  I'm sure there are others.  Q Was there a lead for the ELISA assays?  A That's the immunoassay. That's the (b)(6); (b)(7)(C)
2	Those are the few names that come to mind.  I'm sure there are others.  Q Was there a lead for the ELISA assays?  A That's the immunoassay. That's the (b)(6); (b)(7)(C)  Q Okay.
24 25 01 1 2 3 4	Those are the few names that come to mind.  I'm sure there are others.  Q Was there a lead for the ELISA assays?  A That's the immunoassay. That's the (b)(6), (b)(7)(C)  Q Okay.  BY MR. KOLHATKAR:
24 25 01' 1 2 3	Those are the few names that come to mind.  I'm sure there are others.  Q Was there a lead for the ELISA assays?  A That's the immunoassay. That's the (b)(6); (b)(7)(C)  Q Okay.

```
7
          They're closely related. My understanding,
   and this could be inaccurate, is that ELISA is a type
   of immunoassay. There's one method when we are doing
10 immunoassay, but there may be other ways of doing
    immunoassay. I think that is reasonably accurate. But
12
    I'm not a chemist, so that's my business level
13 understanding of chemistry.
14
       Q I'm not either, so I'll never know the
15 difference.
16
       A Well, I still want to be accurate, so --
17
           And I appreciate that.
18
          I'm going to hand you another document I'm
19
    going to mark as Exhibit 237.
20
       A Uh-huh.
21
                   (SEC Exhibit No. 237 was
22
                   marked for identification.)
23
          BY MR. KOLHATKAR:
24
          For the record, Exhibit 237 is a document
25 Bates-stamped TH-PFM001829250.
0172
1
          Do you recognize Exhibit 237?
2
      A
         I do.
3
      Q
          What is it?
4
           This is an e-mail exchange between myself and
   a few people in the software team, initially, I
   think -- actually, all the software team. And then
   towards the end, it seems like (b)(6); (b)(7)(C)
                                                  shared
   that e-mail with a few other people in the product
8
9
   management team.
           So who is (b)(6); (b)(7)(C)
10
       O
11
           (b)(6); (b)(7)(C)
                                      working for me in
       A
12 the software team.
13
       Q
           What was (b)(6); (b)(7)(C)
                                          role at this
14 time?
15
           Well, I mean, (b)(6); (b)(7)(C)
                                           in our company
16 were like Swiss Army knives, jack-of-all-trades. They
would do a little bit of a lot. (b)(6); was -- his role
18 was to manage -- one of his roles was to manage the
19 LIS, the lab information system we were developing, the
20 training side of that.
21
          And also the features, testing it, rolling
22 out, making sure people are using it properly. So he
    was managing a software component.
24
           If you turn to the middle -- or towards the
25 bottom of the page that's ending in 1829251, do you see
0173
1
   an e-mail from you dated Monday, November 17, 2014, at
2
   9:00 p.m.?
3
      A I do.
4
      Q And it says, "Please create a plan to mask
5
   all of these names" --
6
      A
           Yup.
7
      Q
           -- "so only Normandy crew understands these"?
8
      A
          Yes.
```

What were you asking (b)(6); to do here?

9

10

13

9

A Yes. Let me give you some background to 11 this. So this is -- again, as you pointed out, the date is November 17, 2014. So at this point, we have been in production in Walgreens and in general for more than 14 a year.

15 So we were making a change in our LIS system 16 that allowed us to surface a lot more information. 17 "Surface" means to present information to the users 18 about a sample. So as we look at -- look at a sample 19 to see who ran it, who picked it up, who touched is, 20 who draw it, this was a cool feature in an LIS to be 21 able to -- every information you need about that sample will surface, will show up. You just need to click on an icon and it will show you. You keep clicking and it

25 As part of that, this feature also told you 0174

24 will show you more and more detail.

1 exactly which device the sample ran on. Right? So -and this LIS was used by all labs that we had and in the future. So California and Arizona lab. Because of -- one part of our Newark lab had our trade secrets, 5 which was the Normandy lab, those devices would also show up in that list. So anybody in Arizona can click 6 and say, which device was their sample ran on, so 7 8 they'll be able to see it.

And I didn't want that to happen. And the 10 reason is, like I said, this -- these devices are one of our trade secrets. First of all, the Arizona lab 12 had no need to even know about any device running in 13 California, not just Normandy devices, our finger stick 14 devices because the labs are separate, the licenses are 15 separate. Usually, Lab A and Lab B don't get to find 16 out, you know, what device is running. Now, in our 17 cases, we were a small company, so people obviously 18 knew.

19 So in this case, I was masking that trade 20 secret information from anybody who was not just working in the Normandy lab, in the finger stick lab. 21

- 22 So does "Normandy crew" here refers to --23 refer to people working in the Normandy lab in Newark?
- 24 Yes.
- 25 And you mentioned that you wanted to mask the 0175
- 1 trade secrets from the -- the Phoenix lab members?
- 2 Well, anybody who had access to the LIS. That would include, for sure, the Phoenix lab members, but even other people outside of the Normandy crew, which is why I narrowed it down to Normandy crew, not 5 6 even the other people working in Newark.
- So in other words, other people who were 8 working in Newark not in the CLIA lab space might 9 access LIS for --
- 10 For various reasons. Even they would not be

- able to see it. But actually, there's another point,
- 12 which is: Even people working in the CLIA lab who are
- 13 working in other rooms, not Normandy rooms -- so in
- 14 Newark, we had four or five different rooms. Those
- 15 people had no business going to the Normandy room and
- 16 vice versa. Even those people would not be able to see
- 17 which devices we were using in the Normandy lab and --
- 18 which is why it's restricted to Normandy crew.
- 19 So which -- which devices were you trying 20 to -- to mask here?
- 21 Well, here, as you can see, the list says --
- 22 I actually -- I think I read it here somewhere. I'm
- talking about the third-party -- what you referred to
- 24 as the modified devices, those are the ones that I'm
- 25 masking.
- 0176

- 1 Q Was one of the third-party devices the -- a modified Advia 1800?
- 3 A Yes.
- 4 Q And that -- that's what gets assigned the
- 5 code name 18C?
- 6 A Yes. I would have picked a better code name, 7 but yes.
- O It looks like he was trying to make a joke 9 about these code names.
- 10 A Yeah. You know, I actually told him to
- 11 use -- because I have a fascination with the second
- world war planes and B-52s and bombers. So I was going 12
- 13 to pick planes from the second world war, and people
- 14 told me nobody knows what they were, so I thought I'd
- 15 kind of settle with this.
- 16 The Advia 1800 was being used outside the
- 17 Normandy lab as well; is that right?
- 18 Yes.
- 19 So -- so, I guess, why would it be important
- 20 to mask the use of the Advia 1800 in this instance when
- 21 it's, you know, openly being used and everyone can see
- 22 that it's being used in -- in other settings?
- 23 A The reason is: In this case, explicitly,
- 24 people would know that it is the Advia 1800 that had
- 25 ran a particular finger stick sample for a certain
- 0177
- 1 assay, and that would basically reveal that the finger
- stick sample is running on that device.
- 3 So if -- if the Advia is sitting in our
- 4 Phoenix, Arizona, lab and you're running venipuncture
- 5 and somebody finds out what device are we using, Advia
- 1800, no problems. But the fact that we had modified
- 7 this workflow, and as part of that workflow and the
- 8 technology that we had created, we have Advia 1800 as a
- component of that workflow will get revealed as part of
- 10 this, and I wanted to make sure that doesn't happen.
- 11 Q You don't mask the use of the TSPU; is that
- 12 correct?

```
13
           Yeah, that's right. Because --
14
       O
           Why not?
15
          Yeah. The reason is: TSPU was our device.
16 We had a ton of patents on that. Other people couldn't
17 just go and buy a TSPU and reverse engineer it to see
18 how the -- how it's being done. Advia 1800 was a
19 commercial device. Even the -- in general, even today,
20 the lab industry, it is not a common knowledge that you
21
    can actually modify a commercial device to run finger
22
   stick samples. This is considered to be a
23 near-impossible problem. We solved that problem, and
24 not only did we solve it, we solved it beautifully and
25 we could scale with that.
0178
1
         So even pointing people in that direction,
   they're saying, "By the way, Advia 1800 is possible to
   modify it for finger stick," to me, was a huge loss.
3
   We didn't want anybody to know that.
5
      O I guess I understand the concern to -- to try
   and protect trade secrets, but these were your own
7
   employees that you're -- that you're trying --
8
         Yeah.
9
      Q
          -- to guard this information from; is that --
10 is that --
11
       A Well --
12
       Q -- right?
          Well, let me explain it more. First of all,
13
14 like I said, in general, even people in Arizona have no
15 need for -- to do their job, to know anything about the
16 Newark lab, in general. Forget about the Normandy or
17 the modified devices. However, in the case of trade
18 secrets, it's different. When you have filed a patent
19 like we -- we had patented a lot of Edison, the 3.0,
20 4.0, a ton of technologies, hundreds of patents, but
21 the modifications we had made in this workflow on Advia
22 and modified devices, we did not file patents. We
23
   chose to keep them as trade secrets.
24
          And there's a big difference. From what I
25 understood through my experience and having talked to
0179
1
   the counsel, if you ever get into litigation around
2
   trade secrets, you have to show that you took every
   reasonable commercial effort to protect, to keep the
   trade secret as a trade secret. Yes, even from your
   own employees who have no need to know. You cannot
  just put on the company's bulletin board that we're
   using an 1800 or allow anybody to go and walk in and
   see that we're using 1800 modified to be able to do
   XYZ, whatever. Your case about that being a trade
10 secret weakens deeply is my understanding, and I think
11 that's correct.
12
          So that's the reason. Even from our own
```

employees. If you want to keep something as a trade secret, protecting it from the employees was critical.

- 15 Now, this is not a unique thing to us. If you -- I
- 16 worked at Microsoft. There were a lot of buildings I
- 17 couldn't access because the people were working on
- 18 products that were confidential, not announced, and
- 19 they were -- I wasn't under an NDA at Microsoft. I was
- 20 one of the, you know, trusted employees. I couldn't
- 21 see what they were. This is not an unusual thing in
- 22 tech companies to keep things trade secret even from
- 23 your own employees.
- Q Who was the Normandy crew that could access this information?

- 1 A There are actually quite a few people. These
- 2 were people whose jobs required them to go to this lab.
- I mean, I would -- and there were also R&D people who
- 4 went there. There were also product development people
- 5 who went there. So if I were to guess, I would say
- 6 more than 50 people, but all of them clearly had a need
- 7 to go into Normandy.
- 8 And one more thing, in order to make sure
- 9 that that process around Normandy is -- is honored and
- 10 protected, anytime anyone needed access to Normandy,
- 11 the request came to me, and I would approve. And I
- 12 would usually talk to the lead saying, "Why does this
- 13 person need to go to Normandy?" And they would tell me
- 14 the reason. I would say, "Okay. Make sure they
- 5 understand this is trade secrets and you will" -- it
- 16 was a common communication.
- 17 And also, a lot of the software and the
- 18 documentation that are Normandy validation reports and
- 19 so on, they were all on a separate folder where we did
  - our best that only people who need access to that will
  - 1 have access to that, and people who had no business 2 accessing that information wouldn't even see those
- 23 reports.
- 24 BY MS. CHAN:
- Q Why didn't the company patent the method by 0181
- 1 which you were modifying the commercially available 2 machines?
- 3 A Yeah. I mean, I can explain to you my
- understanding of the patent process. What happens
- is -- and I've filed many patents under my own name. I
- 6 think, I don't know, 60 plus or whatever. It is --
- when you file a patent, at some point it gets
- published. Right? That means it's accessible, and
- that's the whole point behind a patent. That you have
- 10 to describe your method in perfect detail so somebody
- else can replicate it. That's how you get the patent.So us educating the whole world that
- 13 something that the world thinks is impossible, or near
- 14 impossible, it's not really possible, and we are doing
- 15 it at the commercial scale would have meant that a lot
- 16 of other companies would have dabbled with it, and they

may have tweaked it here and there and started copying 18 what we were doing, certainly commercial vendors like Siemens and Abbot and those guys who are not in this 20 business, we would just basically direct all of them to 21 go chase this business now. 22

And once you do this damage, it cannot be 23 done. It's like unringing the bell. Once the bell is 24 rung, you can't unring it. That was the reason.

25 Q Did Elizabeth Holmes know that the company 0182

1 had made a decision to not pursue the patent for that method?

A Yeah. We had discussed that with our attorneys together, and it -- it was -- my understanding is that I think she had the knowledge of 6 that because we -- we talked about that a couple of times.

The other thing is: In 2015, unfortunately 9 when the Wall Street Journal reporter reached out to us and he shared with us that some employee had shared with him what he thought was a trade secret, that we 12 are, you know, doing the modified devices and so on and so forth, we met with out attorney, and we saw -- we said, "This is ridiculous. Now somebody knows. What 15 should we do? We were trying to keep this a trade 16 secret."

17 And one of the first things we did was: We 18 tied up the patents because now that the secret is out, you better patent it, like you said. So we filed -and I believe we filed a lot of patents around this technology at that point. Because we knew now it's a 22 matter of time, the -- even if the reporter doesn't publish it, we knew through him that he had talked to enough people in the industry and had pushed all of 25 them by saying, "Yeah, Theranos is doing this

1 modification. They're just diluting the sample and putting it in this machine and making it look like it's a real sample," and those people knew which machine. So it was already out, and we felt the damage was done 5 so we started filing patents.

- So you started filing patents in 2015? Q
- 7 A Yes.

0183

6

3

5

7

8

8 And was that description of how you were modifying the machine, was that correct that you were diluting samples and then just putting it on the 11 machine?

12 A No, it was completely wrong. It's not 13 possible to do that. That's like saying you can take a 14 gallon of gas and put ten gallons of water, and pour it 15 in the car and you will go ten times farther. No, that's not what was happening. There was a lot of 16 17 scientific research behind it. We had modified the

18 software, like I said earlier on. There was a ton of

work behind that. You cannot just take a sample and 20 dilute it tenfold.

Now, there are actually tests for which it is 22 required to dilute a sample in a certain way. Dilution actually is part of the laboratory. A large number of samples, especially ELISA samples or immunoassays in general, get diluted when they're run. And machines do 0184

1 it automatically, so most people don't get to see the machine actually is diluting the sample because it's closed.

So dilution is common in the industry. The sources of this guy were -- from what we understood, was junior employees who just saw the front-end part, that samples are being diluted. They didn't have access to the lab, and the IP, and the patents, and the trade secrets to see there's a lot of modifications we 10 made in the engine. Right? Like this example of, you know, one gallon of gasoline and ten gallons of water, 12 we made it work on an engine by making significant 13 changes to the controller, you know, making changes in 14 the engine. They didn't get to see that.

And when we approached the journal -- the 16 Wall Street Journal, we said we can -- they wanted us to -- tell us what are the trade secrets. And that's the problem. If you tell them, it's no longer a trade secret, especially if they're in the media.

20 So we said, "If you sign an NDA, we will tell you what they are and then you don't publish them." But 21 they didn't agree to it because they didn't want to sign an NDA. They already had the information they 24 needed to print.

25 So I hope I answered your question.

# 0185

21

23

4

15

19

- 1 To your knowledge, does Theranos have the patents for that modified method?
- A I don't know. Patents usually take time, 3 sometimes, you know, years. But I know that we have 5 filed patents. And I thought they were very tight patents. Clearly, to the best of our knowledge, even
- today nobody else has been able to do what we did. 7
- Even four years after we launched finger stick, I don't
- know of any lab in the world that can claim that they 10
- can do what we did. So I thought the patents were 11 good, but I don't know if they were granted yet.

#### 12 BY MR. KOLHATKAR:

- 13 Before the break, you also mentioned that 14 from time to time, there would be tech demonstrations at Theranos; is that fair? 15
- 16 A Uh-huh. Yes. Sorry.
- 17 No problem.
- 18 The -- would those take place at the -- at
- 19 the company's Palo Alto headquarters? Let me ask it
- 20 more correctly.

- 21 Where did the tech demonstrations take place? 22
- A It depend on -- depended on the
- 23 demonstration. I would say the overwhelming majority,
- greater than 90 percent or 80 percent, would be either
- 25 in the headquarters or it will be at a patient service 0186
- 1 center in Arizona or in Palo Alto. But obviously
- 2 because the -- if I was involved in those, right, or
- if -- if Elizabeth was involved, then the headquarters
- would be involved one way or another.
- And would those -- would the patient 5
- demonstrations track -- I shouldn't say "patient 6
- demonstrations." Would the technology demonstrations
- track differently in the -- Theranos's LIS than -- than
- 9 patient samples?
- 10 A It -- it depended, because we did a lot of
- demonstrations over six years or seven years that I was 11
- there. And I can tell you, in my opinion, unless the
- 13 patient actually went to a Walgreens store and got a
- 14 test there, most of the demonstrations were all
- 15 different because they were -- we were demonstrating
- 16 something completely different based on the audience or
- 17 whoever we were talking to.
- 18 So there was no one set script. However, as
- 19 a broader principle, if you're demonstrating finger
- 20 stick and the entire process as part of the CLIA lab, you know, all the way to holding the CLIA lab results,
- 22 then, yes, it will go through the CLIA lab. Even if
- 23 it's a quote/unquote demonstration, it would still go
- 24 through the CLIA lab process.
- 25 However, anytime -- I would say most of the 0187
- 1 times that I was involved or Elizabeth was involved, we
- were always demonstrating something about the future.
- 3 So in those cases, they would not be CLIA lab because
- 4 those tests are not being run in the CLIA lab.
- 5 Q And would it be possible for -- for an
- 6 individual to get a result from that test without it
- 7 going through the CLIA lab?
- 8 A Yes, absolutely. For the tech demonstration, it would.
- 10 Q For tech demonstrations?
- 11 Absolutely.
- 12 How would -- how would that work?
- 13 Well, there -- like I said, over the span of
- 14 six years, there were many ways. Our software
- ultimately got smarter and smarter where you can do 15
- 16 more and more automated in the software.
- 17 But let's go back all the way early days. In
- 18 2010 when there was no LIS, a lot of the software was
- not there, the demonstration would happen, the results
- would go to the server, somebody would actually print
- it, and hand it out to the patient, and say, "Here's
- your results," because we didn't have the full patient

23 flow -- workflow built yet. And sometimes we would 24 just cut and paste and put it in the e-mail and send 25 it. Right? So that was early days. 0188

1 As we got a little bit better and as we had 2 more people, then we created these Microsoft Word reports, like templates. And then based on the tests you ran, you just basically cut and paste just like 5 Microsoft, and you print it or PDF it, and you send it.

6

4

16

17

And then at some point, when we had our LIS 7 system, then it just became automatic. However, the demo samples were marked either "demo doctor" or, you know, "demo" something. There was some flag that said 10 this was a demo sample. And this way, you can go through the whole process and even see the results on 12 your iPhone, but it still be a tech demo, technically 13 speaking.

14 But I'm just describing, like, the three or 15 four more common ones. I'm pretty sure there were, 16 like, dozens of variations here.

17 Yeah. I'm just trying to understand 18 conceptually, you know, how a report gets created in a 19 situation like that.

20 So is it fair -- is it a fair summary to say 21 that the lab director wouldn't necessarily have to supervise the issuance of a report in that kind of tech 23 demonstration that you described?

24 Yes. I would say, like I said earlier, if I 25 was involved in the meeting and if I'm doing the demo, 0189

1 chances are it's not a CLIA lab demo, it's a pure technology, future capabilities demonstration. In this case, a lab director would not be involved.

What's an example of a CLIA lab demo?

5 Well, a CLIA lab demo is: If someone --6 let's say you came in and said, "You know, I've heard so many things about you guys. Can I get a finger stick and see how everything feels? And I want to be 9 able to see the results on an iPhone."

10 And we will have an official phlebotomist in 11 California, it has to be a certified person, do a 12 finger prick on you, get a sample, scan it, and just as if you came to Walgreens or one of our locations. As a 14 matter of fact, in our headquarters --15

THE REPORTER: Slow down. Slow down.

THE WITNESS: Sorry.

THE REPORTER: As a matter of fact --

18 THE WITNESS: As a matter of fact, in our 19 headquarters, we had a small room set up as a patient 20 service center so you could kind of go through the 21 whole process like you would at Walgreens.

22 And then the sample would go to the CLIA lab, as a sample would go to the CLIA lab. And when they processed it, the results would go to the lab director

25 and the LIS system, and then they would be released to 0190 1 the patient or the doctor based on the law. Well, if it's California, then a doctor has to be involved even for -- if you want to see the whole CLIA lab demonstrations. But as of 2013, fortunately, there's a federal law that says patients have a right to their 6 results right away. And we loved that because that was our mission. 7 8 So we built this cool smartphone app Android, 9 and iPhone, and actually Windows were bought that you will get the results right away. 11 So that would be the demo if you want to see 12 the CLIA lab demo. Q I guess, in that -- in that instance -- we'll 13 14 stay in California -- that person requesting a demo 15 would still need an order of some sort from a doctor, 16 or could they get -- could they come in without a 17 doctor's order? 18 A No. In California, legally you cannot get a 19 lab test done. What happened was: In our case, we had 20 a physician acting as a consultant with us. And our lab director, if the lab director's involved, would be 22 his MD. Initially, it was -- actually, you know, later 23 it was. So the lab director can always write you a lab 24 order, of course. 25 So would -- and again this --0191 1 A Actually, in that case, the lab test we will perform on you will be benign. It will be, like, your lipid profile. You're probably not going to be doing your SDI panel with Theranos. 5 BY MS. CHAN: 6 Who was the physician consultant? There was -- actually, I don't remember the 7 name. And she was a consultant who would basically get the results. And then every time in California when 10 that happened, if it was a CLIA lab demo, again, the lab results would always go to that physician, and she 12 would send you a result. And in her case, she would also add a commentary telling you, you know, about your 13 14 test. 15 But we only did, like, lipid and glucose profiles with that. I don't remember the name of the 16 physician. 17 18 Q Was this (b)(6); (b)(7)(C) 19 Yes, that's the name. 20 BY MR. KOLHATKAR: 21 Q I'm handing you a document I'll mark as 22 Exhibit 238. 23 A Thanks. 24 And, I'm sorry, this should have came with 25 the attachment that I will provide as well. 0192

```
1
         MR. COOPERSMITH: Is it part of 238 or --
2
         MR. KOLHATKAR: It's the parent and child.
3
   It should have been stapled as one.
4
         MR. COOPERSMITH: Okay.
5
         MR. KOLHATKAR: So why don't I just mark it
   as 239 just to -- just for clarity of the record.
6
7
         MR. COOPERSMITH: 238A.
8
         MR. KOLHATKAR: 239. I've already referenced
9 it.
10
                   (SEC Exhibit Nos. 238 and 239
11
                   were marked for
12
                   identification.)
13
          BY MR. KOLHATKAR:
14
         So, for the record, Exhibit 238 is a document
15 Bates-stamped TS-1072845 and Exhibit 239 is the
16 attachments, which was produced natively.
17
          Do you recognize Exhibit 238?
18
          I mean, it's an e-mail from one of our
19
   product managers, (b)(6); (b)(7)(C) and I'm included, I think,
20
   all the way at the top in this e-mail.
21
           So you're not included in the earlier part of
22 the chain, but you're added --
23
           Yeah, it looks like it.
24
       O
          -- at the end?
25
         Yeah.
0193
1
      Q
          Who is (b)(6); (b)(7)(C)
2
          Where is the name?
          Not on the document. I'm just asking aside
3
   from this document, do you know who (b)(6); (b)(7)(C)
                                                        is?
         It may be a chemist on our team. I don't
   know. I don't know. It doesn't ring a bell.
7
      Q Did Theranos conduct any demonstrations for
8
   Memorial Sloan Kettering in 2013?
9
      A I was not in the meeting, or at least I don't
10 recall.
11
       O
          You didn't attend -- to the best of your
12 recollection, you didn't attend a tech demonstration
13
   for them?
14
       A
          Yeah. To the best of my recollection, I did
15 not.
16
       Q Do you recall ever meeting with the folks
   from Memorial Sloan Kettering?
17
18
         Not me. I don't recall.
       Α
19
       Q If you take a look at this e-mail, the -- the
   one that actually includes you from (b)(6); (b)(7)(C)
20
21
       A
          Uh-huh.
22
       O Do you see the line that says, "It looks like
23 there is some discrepancy between the two infectious
24
   panel runs. Any thoughts on why this is the case?"
25
          Uh-huh.
0194
1
          "Note that I grouped total HB," do you know
2 what HB is?
```

```
3
          Hemoglobin, I think.
4
          -- "with a complete metabolic panel assays,
   but please advise if it should be a different section.
   If any other addresses need to be made, do let me
   know."
7
8
         Do you know who -- who is he asking the
   question to here?
10
          It seems like it is addressed to (b)(6); (b)(7)(C)
11 (b)(6); (b)(7)(C)
12
       Q Do you have any recollection of why you're
13 included on this e-mail chain?
14
       A You know, people used to include me in,
15 unfortunately, too many e-mails. So I don't know why
16 he included me here because it doesn't look like I was
17 in the demo and I was not part of the earlier
18
    conversation. So I don't know why he included me.
19
           I'm going to hand you another document.
20
           Should I put this away?
           Actually, I'm going to have them both next to
21
22
   each other.
23
       A Sure.
24
       Q I'll do the same -- and I'll do the same
25 thing here where I've got 240 and 241.
0195
1
                  (SEC Exhibit Nos. 240 and 241
2
                  were marked for
3
                  identification.)
4
         BY MR. KOLHATKAR:
5
      Q So for the record, Exhibit 240 is a document
   Bates-stamped TH-PFM0000147224. And 241 is the
7
   attachment, which was produced at THPFM0000147237.
8
         Have you had a chance to flip through Exhibit
9
   240?
10
       A I'm doing it right now. If I can just have a
    few more seconds.
11
12
          (The witness examined the document.)
13
          Okay.
14
       Q Do you recognize Exhibit 241 -- 240?
15
         I don't.
16
       Q Does it appear to be an e-mail chain
   addressed to you and others at Theranos?
17
18
          Yes. It has my name for sure.
19
           So I want to turn to a message that begins
   on -- in Exhibit 240, page ending 147230. It's a
21
   message from Ms. Holmes dated June 1, 2013, at 7:17
22 a.m.
23
          Do you see that?
24
          Uh-huh.
25
       Q
           Sorry, is that a yes?
0196
1
          Yes. Sorry, yes.
2
          The -- and the message says, "Discrepancy
   will be a problem. We will need to see if we can
   correct for it."
```

5 A Yes. 6 Were there ever instances in tech 7 demonstrations where there would be discrepancies between runs of samples? 9 A It's an extremely common thing, not just in 10 tech demonstrations, but even clinical labs, for samples to yield different results. As a matter of fact, if I take your blood right now from the same 13 vial, if I ran the same test twice on the same device, 14 chances are, depending on the test, but most cases, it 15 will be a different answer. 16 Q At the time, what was your understanding of 17 the ways that it could be corrected for? 18 A Yeah. I can -- there is -- the word 19 "corrected for" is a term of art. It's used quite 20 often in set of six in mathematics and machine learning. The most common way is: If you apply a correction factor to a lab result -- and it's a common 23 thing that happens in clinical labs when you bring a 24 new assay on a device, you know, it's supposed to give 25 you an expected answer, and the device -- but the 0197 1 reagents' lots change over time, and over time their value changes for a variety of reasons. And then the software automatically applies a correction factor based on the calibration that is done on the device to 5 correct the results the -- the device is going to spit 6 out. 7 So in most cases -- sorry for the long answer, but in most cases, the correction applied is 9 either running more samples, correcting for the 10 reference range, and a few other things. 11 If you -- if you turn -- turn to the page 12 ending in 147227, there is two messages from (b)(6); (b)(7)(C) 13 The first of the bottom message dated June 1, 2013, at 12:26 says, "Yes, I trust the second run in PA. Over 15 90 percent of the people approximately 50 years of age 16 should test positive for mumps." And it goes on in the message above at 4:13 p.m. to say, "Greater than 95 17 18 percent of women about 50 years of age in the U.S. test 19 positive for measles." 20 A I see that. 21 Was it your understanding that a normal way 22 to correct for results included looking at the -- the 23 sample provider's characteristics? 24 Yeah. You always look at the -- the 25 patient's characteristics. Always. For example, if 0198 you get a very high testosterone result and the patient 1 is female, chances are the result has been thrown off. 3 So you always do. 4 As a matter of fact, in clinical labs, the 5 way samples are processed -- you know, the -- the

devices are agnostics. They don't know whose sample it

```
is. Right? And they will run a sample, and then it
   goes to a lab information system, the LIS. In LIS is
   where you have these rules applied like this. For
10 example, if the testosterone is greater than X and the
   patient is female, either rerun it or flag it to the
12 director because chances are, it's wrong.
13
          So it's a very common practice.
14
       Q If you turn to the page ending 147225,
15 there's a message from Ms. Holmes dated June 1st, 2013,
   at 3:29 p.m. It says, "Go ahead and prepare a final
17
   report. I'll review in parallel."
18
       A Uh-huh. Yes.
19
           Who had the authority to release reports for
       O
20 demonstrations?
21
       A It was a team effort. This is -- if you look
   at this, this is dated June 1st, 2013. This is deep in
   the R&D mode here. So there were a lot of people who
24 either -- even the chemists who developed the assay can
25 make the final call saying, you know, "I have done this
0199
1
   assay. The assay looks good. So I have a high
2
   confidence the assay is good."
3
         And then the person who ran the sample could
4
   also make the call. And then somebody like (b)(6);
5
   who would look at the patient demographics to say
   does it make sense or not would -- could also make the
6
   call. And, of course, Elizabeth Holmes would look at
   the report also. So it's an R&D phase. A lot of
9
   people could make the call.
10
       Q If you take a look at the -- at Exhibit 241,
11
   the -- the -- the sample results.
12
       A
           Yeah.
13
       Q
           What format is this -- is this in? Is this
14 in a --
15
          It says at the top, "tech demonstration."
       Α
16
           Okay. And is this sort of the template that
17
   you were describing earlier where data can be entered?
18
          Yeah. This could be one example of the
19 template. Yeah. It changed over time. But yes, this
20 would be one. It got better looking over time.
21
          MR. KOLHATKAR: We've got to switch
22 videotapes. So we'll go off the record at 1:49 p.m.
23
          THE VIDEOGRAPHER: End of Disk 2. Off
24 record.
25
          (A brief recess was taken.)
0200
1
         MR. KOLHATKAR: Back on the record at 1:58
2
   p.m.
3
         BY MR. KOLHATKAR:
4
      Q Just to confirm, Mr. Balwani, you didn't have
5
   any substantive conversations with the staff during the
   break; is that correct?
6
7
          Yes, that's correct.
8
          So I wanted to compare the two reports
```

9 briefly that you have in front of you, 239 and 241. 10 And if you look at the third page of 239 --11 A Okay. 12 O -- it looks like there's Infectious Disease 13 Panel Test 1 and Test 2. 14 Do you see that? 15 A Yes. 16 Q And on Test 1, it looks like mumps is 17 negative, and on Test 2, it's positive; right? 18 Sorry, where are you? Oh, test panel, Test 19 Numbers 1 and 2. 20 Q Yeah. 21 (The witness examined the document.) 22 Okay. I see that. 23 And -- and these are both listed as -- as 24 qualitative units? 25 A Correct. 0201 Did you have an understanding of what that 1 Q 2 meant? 3 A Yes. Yes. 4 What does that mean? 5 It's either positive or negative or -- or yes or no. Qualitative is that. And quantitative is where you actually get the digits. Q The -- and if you could take a look now at 8 9 the test report at 241. 10 If you look at the first page there, the 11 mumps is listed as positive in qualitative. 12 Do you see that? 13 A I see that. 14 I guess for -- for -- for qualitative tests, 15 what would be the -- as you said, if you run the same 16 blood twice in the same machine, you might get two 17 different results. 18 A Yes. 19 It's a matter of the ranges. 20 For the -- for the -- for a qualitative test 21 like mumps where it's either positive or negative, what 22 would be the situations in which you, you know, know 23 which one of the two tests is correct and pick between 24 positive or negative like this? 25 Well, it's different for R&D than the CLIA 0202 1 lab. I'm assuming you're asking me about R&D. 2 Sure. Yeah. A R&D could be, you know, a hundred different 4 factors. It could be the confidence of the guy who ran the test, it could be the confidence of the guy who said, "You know, I used a different method," or "a different reagent," or "a different reagent lot the second time," you know. There are a lot of factors 9 that go into, you know, in R&D, well, how would you

10 pick the -- pick the answer.

11 There's also a protocol in CLIA that 12 sometimes R&D people follow, which is: If you get two 13 results which are different, you either pick the first 14 one or the second one unless it's a test that, you 15 know, like I said in this one, which is most likely, 95 16 percent are positive. 17 So -- so there are certain decision criteria 18 that go into that. My guess is, I mean, this is my understanding, again, high-level understanding. So my 19 20 guess is: That's the kind of level of thinking that 21 would go into something like this. 22 Q What about in the CLIA context, if you got a 23 sample that you ran twice and you got, you know, two 24 different -- two different outcomes, how would that be addressed in the CLIA context? 0203 A Well, first of all, in CLIA, the assay would 1 be way further along. Right? So an assay is not going to go live in CLIA unless your confidence level is not 3 high -- not just high, but has been validated by the lab director. So there's a day-and-night difference. 6 I just want to point out that in -- in like a, you know, think about the iPhone 10 that Apple may be working on. Things will work differently when it's in the hands of Apple and R&D versus when it's in the 10 hands of the consumers because it has gone through a 11 certain process. 12 So the reason the processes in SOPs are 13 different in CLIA is because of that very significant 14 reason. In a CLIA lab, like I said, there are usually 15 SOPs that lab directors have put in place. Now, they 16 have a right to modify them anytime they want, but usually, they'll say, "For these assays, if you run it 18 the first time and if it is positive, then run it again 19 to confirm it as positive." 20 For certain tests, there's actually protocols 21 defined by CDC and you have to follow those. Like HIV 22 and some of the more -- more dangerous -- or not -more complicated infectious diseases, the protocol is 24 on the CDC's website. You just follow those. 25 And for different types of tests, the lab 0204 1 director might have a set of different rules. But then

1 director might have a set of different rules. But then
2 that becomes part of the SOP. The CLIA lab gets
3 trained. If it is in the software, then it gets
4 implemented into the software also, and then our
5 software just automatically makes the decision on
6 behalf of the lab director.
7 Q Was that generally your understanding
8 throughout your time that Theranos had a -- had a CLIA
9 lab?

A Yeah. I mean, that's my understanding of the -- of how things work in a CLIA lab, and I think

12 it's reasonably accurate that the lab director will

13 have those policies in place.

Because this instance of, you know, you're running something once or twice, it's a common thing in

16 a CLIA lab. The clinical lab staff may run it twice

17 for, you know, different reasons. Sometimes, you know,

18 sample -- just to confirm a test before they -- before

19 they ship -- release the results. So there are a lot

20 of different pathways of why things would run twice in 21 the CLIA lab.

And the lab director usually, for every assay, would have those policies in place, and assay by assay in most cases.

25 Q And for -- in the CLIA lab context, again, 0205

1 would there -- would there ever be a reason where Ms.

2 Holmes would have the final say on whether to correct a

3 reference range or adjust a reference range?

4

5

7 8

9

A She would not have, in my opinion, the final opinion on the CLIA lab. It is possible that sometimes when you bring up tests in the CLIA lab, when you set the reference ranges, you start with a narrow number. I think the minimum is 20 for most assays. Sometimes it's actually even five.

And basically you get five patients and you run them, and you get some data. And then as you get more and more patients, it gets broader and broader and the reference range gets better and better.

So it is possible that -- theoretically, I'm talking. I don't know whether she did that or not. But theoretically that if you have set a reference range and the results seem off or is on the borderline or out, and the -- and the doctor or the patient has a reason to believe that no, your results is challenged, you know, take a look at it again, then you'll say, "You know what? This one, we don't have enough

22 samples. Let's add more samples to see if the

23 reference range changes."

But again, in the CLIA lab, lab directors are the ones who make that decision. Ms. Holmes could 0206

1 probably make a recommendation that please try to do

2 that, and sometimes even I would make a suggestion

3 because I knew that for assays where a sample size

4 was -- sample population was less, you could make

5 things better. I mean, that's what the CLIA lab does.

6 This is why they have LDTs, the lab developed tests,

7 for that -- one of those reasons is that reason.

8 Q And, I guess, how would that -- how would 9 that adjusting the reference range fit in with the --10 the SOPs that you described?

11 A Well, no, it would be the lab director who

12 would do that. It's not -- the SOPs will be at the

high level that if you have a reason to adjust the reference range, and again, I'm not particularly

familiar with the exact SOP, but I am familiar enough at the high level that the lab director would say, "If 17 there's a need to modify the reference range, here's 18 the process." 19 In the CLIA lab, there's always a process or 20 well -- a well-defined document that tells you to do pretty much everything. And, you know, that's the --22 that's the right approach. 23 Q Once -- once Theranos started modifying 24 commercially available machines, did -- did you ever 25 tell any recipients of -- of demonstrations that their 0207 1 tests would be run on commercially available devices? 2 A Well, these devices would not be commercially available, first of all. The ones that we modified 3 that went through so many changes using our proprietary 5 technology, they are no longer commercially available 6 would be the first thing. 7 The second thing is the answer I gave you earlier, no, we would not tell anybody because of the 8 9 trade secret point. Just pointing somebody that, you know, by modifying the Toyota Prius's engine, you can 10 go 500 miles a gallon would be a big violation of a 12 trade secret, so we would not do that. 13 BY MS. CHAN: 14 So if you go back to Exhibit 239. So looking 15 back at the comparison of Tests Number 1 and Number 2, and you look at the results of -- the measles and 17 rubella test results, you know, for Test Number 1, 18 measles is reported at 42 and rubella is at 10, and 19 then for Test Number 2, it says 139 for measles and 62 20 for rubella. Those seem like very different results. 21 In that kind of situation, you know, what --22 what would be the procedure as -- to figure out which 23 of those two is more likely to be the accurate result? 24 MR. COOPERSMITH: And just to clarify, are we 25 talking about CLIA lab or R&D lab? 0208 1 BY MS. CHAN: 2 Q It is -- would it be different? 3 A It will be -- I was going to ask the same question. It's very different for clinical lab. Clinical lab is -- there's a clear SOP that says if you 6 ran the test the first time, right -- let's say the first time, the result was 42, for whatever reason, you decided to rerun it, it doesn't matter what the reason is, the next time the result comes to 139. If you 10 don't have a reason to run it the third time, always 11 report either the first or the second. There's an SOP 12 for that. You cannot pick in a CLIA lab, like, "Hmm, 13 130 is better." There's no better is the big point 14 here.

Because if I test you twice right now, within

16 five minutes, there are some tests which will be

significantly different. Or if you just walk around the block, your test -- some tests will be completely 19 different. So if there is a reason to rerun a test and 20 the results are different, there is no one that is 21 better than the other. They're just different. 22 And this is why in a CLIA lab, you will have 23 an SOP that says, you know, "Always report the first one. If the second one gives you enough information to 25 give you confidence than the first one," now, this is 0209 my understanding and I think it is reasonable. That 1 there's an SOP that says, "Pick the first one." 3 A lab director has the right to override it, 4 of course. A lab director may even have a general 5 supervisor override it or a CLS override it. That happens in the lab. But -- but that's the process. 6 7 But there's always an SOP for that. 8 And what about in the R&D context? 9 Like I said, R&D, because things are being in 10 the research mode and the R&D mode, there is no SOP because then that's not R&D anymore. Right? And so it 11 would depend on the chemist, on the scientist, on the 12 13 guys who are doing the number crunching. It may even 14 be -- it may depend on the software developers. 15 As a matter of fact, if you look at 240, all 16 the way at the end, the last page, the first people on 17 that e-mail is this lady, Sondia, and she was a 18 software QA person. So even -- somebody is reaching 19 out to her saying, "Hey, did you run the panel and how 20 did things work out? Did everything went okay?" So there are a lot of people who can provide 21 22 input, and based on that, you have a certain confidence 23 that you report out the test. 24 So if you look at 241, then, you know, in 25 terms of the results for those two runs now, they've 0210 actually been changed. Instead of quantitative 1 results, they've been changed to qualitative, so that measles is being reported at positive and rubella is 3 4 being reported as positive. 5 A Right. 6 Why was it appropriate to change a 7 quantitative result to a qualitative result? 8 Yeah. That's a good question. The reason is: When you run an assay for the -- even a qualitative 10 assay like HIV, for example, where you report out 11 positive or negative -- now, there are quantitative HIV 12 assays also. But for simplicity sake, let's say 13 there's a qual assay, a qualitative assay. When you 14 run it on a machine, the machine still gives you a 15 value. The machine doesn't say positive or negative because it needs a threshold, right, to be able to say 17 above this is positive. Below this is negative. 18 HCG, for example, the pregnancy test has a

threshold. Above this, chances are you are pregnant.

20 Before that, you're not, less than that, you're not.

So there are -- there are thresholds for positives and

22 negatives, which means there is a quant value that the

23 machine is going to give you.

4

5

9

10

12

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18

5

24 Then your software, based on the rules. In 25 this case, it was a qualitative assay or a quantitative 0211

1 assay, it will take the numbers, look at the threshold, and determine whether you're positive or not -negative.

So let's assume the threshold was a hundred, for instance, and I don't know it was or not, is a hundred. If your result was 105, it will be positive or if it's less than a hundred, it's a negative. The software will automatically do that. That rule is in the software.

And as a matter of fact, I happen to know, I 11 think I'm right, that the MMRV panel, the measles, mumps, rubella, varicella I think is the fourth one, 13 they're all qual assays. They are reported out as qualitative values. They're not reported out as quant in general. Even the CLIA lab are all qual assays. Which is why they report it out as qual assays here -qual assays here.

Does that make sense?

19 So did you have any concerns, though, that 20 the machine was generating results that were so different even if it was maybe over a certain 22 threshold?

23 A Not necessarily. I mean, there are two 24 answers to that. First, like I said, this is R&D. In 25 R&D, if things are a little off initially, that's not 0212

to worry. And these results are tech demonstrations, so 1 you clearly tell the user "Do not use these for medical decisionmaking." They're not supposed to, which is why 3 4 they're tech demonstrations.

But the other thing is: It is not an 6 uncommon thing for the devices in the lab, even FDA-cleared devices, to spit out significantly 8 different results on two different runs. It happens all the time in the lab.

10 As a matter of fact, if you draw your blood, even in the same instance, if I take two tubes from 11 12 you, and let's say I ran 50 tests on this one and 50 13 this one, the chances of them matching all 50 of them 14 is probably close to zero. I mean, you might as well play the Power Ball lottery. It's that low. 15

16 I'm wondering, considering that all three of 17 these tests has very different results, you know, one was positive and the next one was negative, and then, 18 19 you know, rubella and measles gave pretty different 20 quantitative results, why wasn't the recommendation

```
21 just to get a redraw from the person who provided the
22 sample?
23
       A First of all, because it's a demonstration,
24 the point was: We can run a test from finger stick
25 would be the -- my first answer. The second would be:
0213
1 Again, I was not in this demo, but whoever was
   communicating with this person may have said, "Let's do
   a redraw" if there was suspicions.
4
         Now, there's a common protocol also, by the
5 way. If this was not a tech demonstration, if this
   were CLIA, for instance, the lab director would have
   said there -- actually, there's -- I'm going to
8
   mispronounce this word, I think is the unequivocal
9
   word, the --
10
          MR. MCKAY: Unequivocal?
11
          THE WITNESS: Equivocal. Yes. Sorry, I can
12 never pronounce it.
13
          THE REPORTER: What? Can you say that again.
14
          MR. MCKAY: Unequivocal is the word he's
15 saying.
16
          THE WITNESS: Sorry.
17
          And there's a term like that in the lab where
18 you have positive and negative, but you're not sure,
19 it's on the threshold, this is actually is an official
20 result you report out to the doctor saying, "We don't
21 know. Please do a redraw."
22
          So in the CLIA lab, that -- that happens
23 quite a bit. But in R&D, that's obviously a
24 nonnecessity.
25
          BY MR. KOLHATKAR:
0214
1
      Q
          You can put those aside. Thank you.
2
          Okay. I was beginning to memorize these.
3
          I'll hand you what has been previously marked
   as Exhibit 215. For the record, 215 is a document
5
   that's been previously marked as -- and is
6
   Bates-stamped TS-0902539.
7
         THE WITNESS: Okay.
8
         BY MR. KOLHATKAR:
9
      Q And do you recognize Exhibit 215?
10
       A Yes. This is an e-mail conversation between
11 myself and several other people at Theranos, and
12 finally, the last one is between me and Ms. Holmes.
13
       Q The -- I want to start with the e-mail that
14 sort of starts at the bottom of the first page and
15
   carries on to the -- the next page. It looks like an
16 e-mail from (b)(6); (b)(7)(C)
   (b)(6); (b)(7)(C)
17
18
          Do you see that?
19
20
       Q I guess, what positions did all these people
21
   have as of this time in June 2013?
22
           Sorry, can you point it out again.
```

23 The one at the bottom of the page dated --24 time-stamped 6:47 p.m. 25 Yes, I see that. 0215 1 (b)(6); (b)(7)(C) 2 3 4 5 6 7 What about (b)(6); (b)(7)(C) O what was his 8 role? (b)(6); (b)(7)(C) 9 Α (b)(6); (b)(7)(C) 10 Same as (b)(6); (b)(7)(C) 11 Q Yes. (b)(6); (b)(7)(C) 12 A 13 O Okay. You mean, 14 (b)(6); (b)(7)(C) 15 Correct. Yes. A The -- it looks like (b)(6); (b)(7)(C) 16 - the first line after he says, "Hi, all," is: "For tomorrow's 17 demo, as listed below, we'd like" -- "we'd like to have 19 a miniLab and either a 4s or monobay with the Normandy 20 shell uploaded, whichever works better." 21 A Yes. 22 Q Do you know what he's referring to when he says "miniLab" here in this context? 24 It was a code name for one of the versions of 25 the machine, so I'm assuming he's referring to either 0216 1 4.0 or 4 dot -- or some variation of that. 2 Okay. Is this, you think, a 4 series? 3 A Yes. 4 Q What's your basis for thinking it's a 4 5 series? Because those are the machines we had. I 6 7 mean, if it was 3.X machines, he would call it out as 3.5 or 3.0. Basically, everything else was in the 4 9 series. 10 Q Okay. And do you know what he's referring to 11 when he says, "monobay"? 12 Yeah. That's the blade that I had mentioned 13 to you earlier. That's what he's referring to. 14 Q What about "the Normandy shell uploaded," 15 what is the Normandy shell? 16 Yeah. That's a software program that I had 17 wroten -- I had written. And the easiest way to explain that is: You know, you have an operating 19 system, and if you -- in an operating system if you go 20 to the command line, if you type, say, "command," it shows you a DOS window. I don't know if you've ever 22 done that. But it's basically a way to interact with the -- some people have done it. It's a way to 24 interact with the -- do you know what the word "DOS"

25 is? Yeah. 0217 Q 1 Sorry, I'm not going to answer questions. 2 Oh, sorry. A 3 O I don't mean to be rude. It's just --4 Oh, I'm sorry, I didn't know that. Α I am familiar with it generally, but --O 6 Okay. 7 O -- I'm just trying to understand what --8 A Yeah, yeah, my apologies. -- the shell is here. 10 Basically, it's an equivalent of a command line interface to the machine. And you can go and type 11 commands there, and the machine will do those for you. 12 13 So just like you have a user interface and can click icons and beautiful icons you can flip 14 through this and that, or if you are a programmer who 16 just wants to say, "Get out of my way. I'm going to talk to the machine directly," you just double-click on the Normandy shell, and it pops up a window, and you just directly -- directly type raw commands into the 20 shell, and the machine can do things for you. 21 Q Okay. So the shell doesn't refer to sort of 22 the -- the operating system for that -- that sort of nice-looking operating system, for lack of a better 24 word? 25 A Well, it does have a nice UI. Just like Mac 0218 today has this app called Terminal, and it brings you 1 up, you know, a green or black window and you can do Unix commands in it. It's like that. And actually, maybe I should take a step back. 5 Our TSPUs, when I came to the company, I had modified the design very significantly. I wrote a lot 7 of the initial code. And I had pushed -- our 3.0s used to run Unix, and everything was Linux. I pushed that down and I put Windows on top of it so programmers can 10 program everything easily. The UI is easy. We can do 11 Bluetooth connectivity with, you know, third-party 12 devices. We can print stuff. Everything you can do 13 from Windows. It was a version of Windows called embedded systems, Embedded Windows (sic). And it had a command line interface to be able to talk to Windows and talk to the machine. 16 17 So what would be the use of having a -- that 18 sort of capability for a TSPU for a demo? 19 Again, this is 2013, but even forever when 20 you are in the demonstration mode and you have a machine that is an R&D machine, when you install it -especially if it is my presentation, I wanted to make sure everything is good. So the software developers

24 will stay as long as they have to so that even after

0219

25 they have tested everything, they will come to the room

where the demo is going to happen, and they will go to the command line and run a whole bunch of commands to make sure the machine is happy and healthy.

And shell allowed them to do everything quickly versus going through, you know, clicking. And 6 normal people like clicking. Hyperlink is easier. 7 Programmers like to do command line. And hence the word "shell" -- "Normandy shell." I wrote most of the codes, which is why I know.

- The next e-mail up says -- it's from Michael, 11 that programmer you mentioned; is that right?
  - A Yes.

3

4

5

10

- 13 And he says, "FYI, I've just finished getting 14 the Device OS installed with the Normandy app and properly running the null protocol on Mobile Labs 4 and 16 8."
- 17 Yes. Α
- 18 Q Do you see that?
- 19 A I do.
- 20 O So "Device OS installed with the Normandy
- 21 app," what is that in reference to?
- 22 A Device OS is the Windows 7 embedded system 23 installed.
- 24 O What's the "null protocol"?
- 25 So that's another thing that I wrote. And 0220
- 1 it's -- the concept comes from software. In the world
- of software, there's a concept of null, which refers to
- nothingness, like -- like no instructions. Don't do
- anything. And in databases, for example, if you have a
- bank account and if you say somebody has \$0, that it
- still implies that you know this person has \$0, but if
- you don't know, you just say "null." It means I have no
- 8 idea. It's undefined.
- 9 So in the software world, this is a common
- 10 concept. I brought this concept to the world of
- 11 medical devices. Basically, what this protocol did
- 12 was -- so our device had this beautiful nine-inch
- 13 iPad-like interface. Literally a tablet, touchscreen,
- 14 you know. And it was cool because you could be wearing
- 15 gloves and still be able to touch it, which you cannot
- 16 do -- most of the devices, you can't do and -- because
- 17 the machine was going to run in the lab.
- 18 A lot of the times, we would do a
- 19 demonstration for people who would come visit us, and
- 20 we would show them the capability of the device beyond
- 21 just processing samples. Because our device had WiFi,
- 22 Bluetooth. We actually also had a prototype of our
- device with a camera on top of it so you can do tele --
- 24 videoconferencing.
- 25 So the idea was to be able to demonstrate 0221
- 1 everything without having to run the blood test. So
- 2 you could still do the entire process. You collect the

sample, you put the cartridge -- now, in most cases, we would not collect the sample. We'd just insert the 5 cartridge. But when you insert the cartridge, the machine still has to initialize as if it's doing 7 something.

8

9

And -- but if you have no protocol, it's not going to do anything. You just open the mouth, you put 10 in the cartridge like a VHS tape, like a DVD, and -and it will just insert the tape and it will sit on it 12 and not do anything. But now, the screen basically 13 gives you the power to be able to collect more 14 information.

15 So one of the use cases would be -- was, for 16 example, it will allow, you know, assays. If you're running Ebola, it's not enough to just collect the 18 sample, you want to collect more information from the 19 patient.

20 And usually what happens in the field is: 21 The lab is not involved because then somebody else is 22 going to collect on an app or on a piece of paper, and 23 the information can, you know, not get to the decision 24 maker. In our case, because we were running full-blown 25 Windows, literally Windows 7, you could tie it to a 0222

- 1 Bluetooth blood pressure monitor to monitor height, you
- know, meters. But also on the iPad -- the -- the
- touchscreen, we were running these iPad-like apps. So
- what is your first name? What's your last name? We
- can even take images of the people if we wanted to. 5
- 6 And we can ask them questions. Is there anybody else
- in your home that's sick? Right? So a yes, no, and
- basically triage the -- the -- the disease.

9 So there were -- and that's just one example. 10 There were a lot of apps that we had written that we 11 would run on the device without having to run the blood 12 test. And the point was --13

THE WITNESS: Am I going too fast?

THE REPORTER: (Nodding.)

15 THE WITNESS: Yeah.

14

16 The point was to demonstrate the future 17 capability of the device when we start putting this in 18 the field even just in Walgreens stores. Because one of the challenges in healthcare today is: The

- 20 information about the patient doesn't get to the
- 21 insurance companies. And by collecting blood, and
- 22 blood pressure, and other biometrics as part of one
- electronic transaction seems like a simple thing, but
- 24 in healthcare, this is a huge thing. To be able to
- 25 deliver that information to the insurance company so 0223
- 1 they can do something about it in realtime was a big 2 deal.
- 3 So that's what null protocol demonstrated.
- 4 BY MR. KOLHATKAR:

5 So you mentioned the -- sort of what utility 6 the null protocol would have in demonstrations. 7 Was there ever an instance where you 8 collected a sample, inserted it to a TSPU using the 9 null protocol, but then actually tested the sample at a 10 later point, either in that TSPU or in another device? 11 Well, no, not at a later point. If we, for 12 example, were demonstrating the capability of the 13 device and also that "Okay. We're going to run a sample on you," the chances of those are two different 15 demos. 16 Because either we are doing, you know, a 17 broad panel of tests or whatever, you know, we were trying to demonstrate, and we would run it in the CLIA 19 lab or in R&D, if we ran it on the machine, then you would see it, and the machine will make noises. I 21 mean, you would be able to see that it's running on the 22 machine. 23 So, no. I mean, there would be no need, if 24 you are just demonstrating the null protocol, to be 25 able to also run the sample. Because if you're running 0224 1 the sample, then you're not running null protocol 2 anymore. 3 Does that make sense? 4 Q I think I -- I think I follow. 5 Did null protocol have any other name at the 6 company? Was it called the demo app? 7 A Yes. I mean, actually demo app was a broader app than null protocol. Demo app would be, you know, let me collect patient information also. Right? So anything that you can do at a Walgreens store which required currently a separate computer, you could put a 12 demo app, and there could be many different demo apps. 13 But, yes, that that would be -- but in all likelihood, 14 null protocol will be a subset of the demo app if 15 you're just doing a demo at a demonstration. 16 So I guess I'm trying to understand the 17 context of this message. 18 The next message up, it says, "Given ML 19 doesn't have SITO, what are we planning on running on 20 ML?" And then (b)(6); (b)(7)(C) 21 replies, "Right now, we are not planning on running anything on ML, unfortunately." 24 Yes. A 25 Does it appear -- does it appear as if for 0225 this demo, you're actually -- the goal is to actually 1 2 run a blood sample? 3 A In this case, it seems like we were going to run a blood sample on one of the machines. Because if 5 you see, I was asking them to put different machines. So if I was going to do a demo, I probably would have

- picked a machine and run some blood sample. 8 Q Okay. So -- so what you're saying is: The 9 null protocol here in this chain refers to samples --10 the -- the TSPUs that weren't going to be used to demo 11 the sample? 12 A That's right. But, however, there's also --13 just because a machine can run null protocol doesn't 14 mean you cannot do anything else with it. So if you 15 load a null protocol in the machine, I could insert a 16 blank cartridge, and it will know "Ah, null protocol." 17 But if I insert a real cartridge in it, it would just 18 run that protocol. Because the machine can run 19 literally hundreds of thousands of protocols. There's 20 no limitation. 21 Okay. So in other words, the null protocol 22 wasn't something that would shut down the other 23 functionality? 24 A No, it won't. Yeah. Null protocol had --25 you had to invoke the null protocol by either the demo 0226 app, or these decision support apps, questionnaire 1 2 apps, or whatever, you know, we call them different 3 names. But you will particularly trigger it by, you know, picking some software function. 5 And then it will say -- or there were some 6 cartridges that were mapped for null protocols. So if 7 a cartridge has zero, zero, zero, zero, I'm just making it up, for instance, then the system would say, "Ah, that's null protocol. That means don't do anything." 10 Q It looks like at the end of this chain, you 11 forward it on to Ms. Holmes; is that right? 12 A Yes. 13 Q Did you ever discuss the null protocol with 14 Ms. Holmes? 15 A No. This is a deep software concept. And I 16 don't think most in the company besides the programmers 17 or the people who are working on it would refer to it 18 as null protocol. Everybody --19 Q But --20 A Sorry. 21 Q Please. 22 A Everybody else would probably call it the demo app or "I'm not going to run the test. I will only demo the app device," something more user 25 friendly. 0227 1 Was Ms. Holmes familiar with the process for
- demonstrations where you could insert a cartridge and not have a TSPU actually run the sample?

  A I would say so, yes. I mean, she saw that once or twice. I don't know if she remembers it.

  Because a lot of times I wasn't the person in the room.

  I mean, before we had actually null protocol -- the reason I came -- I came up with null protocol is

- 9 because before this, anytime we had to demo, the 10 machine had to run something, and then I had to volunteer, if nobody else did, to prick my own finger 12 and -- and run the samples. Because without that, the 13 machine won't proceed. 14 And so literally, I would -- I was like the 15 blood bank. You know, I was giving samples for every 16 demo. And so I said, "Well, I need another protocol so 17 I can run it without running a sample." 18 Was the null protocol ever created because in 19 that process of having to, you know, run actual samples in the machine, the machine would come up sometimes 21 with error messages and the -- the sample would sort of 22 stall in place? 23 A That certainly is possible. In R&D, machines 24 will give you error messages all the time. And in this example, like before 2013, like I said, you know, if I 25 0228 1 ran my sample and something went wrong, the machine will stop. But that was no big deal. This is an R&D machine. I mean, even the machine catches fire, who cares? You just run another machine. I mean, 5 technology companies' demos fail all the time, so that was not a concern for me. 6 7 You mentioned you had to prick yourself. I 8 mean, did you become proficient at -- at drawing for --9 Yeah, yeah. If you want to try it out, I can 10 do it for you. 11 In these demonstrations, would you be the 12 person who would draw the blood from the -- from the 13 recipient? 14 No. If somebody else volunteered, then I A 15 would have somebody more professional, like a phlebotomist or at least somebody better-looking to do 17 the blood. But usually, I did that on myself. So, yeah. I mean, when I was doing a test on myself, I 18 19 didn't need a phlebotomist. I could just do it myself. 20 BY MS. CHAN: 21 Looking back at Exhibit 215 in your e-mail --22 sorry, in (b)(6); (b)(7)(C) e-mail to you at 10:39 p.m. 23 A Yes. He says, "We're not running" -- "We're not 24 25 planning on running anything on the ML, unfortunately." 0229 1 And "ML" is main lab --2 A Correct.
- 6 in ELISA assays are not performing adequately for a
   7 demo at the moment."
   8 Was that consistent with your understanding
   9 that the miniLab or the 4 series TSPU wasn't running
   10 the general chemistry in ELISA or couldn't run the

And he goes on to say, "The general chemistry

-- is that right?

3

4

Q

```
general chemistry in ELISA assays as well?
12
       A No. This is referring to -- like I said,
13 he's -- this is a specific code name for a specific
14 type of machine, not necessarily all 4 series devices.
15 And again, he's talking about it's not performing
16 adequately for a demo at the moment.
17
          What happened was: A lot of times we'd have
18 machines come and go. So machines would come -- let's
19
   say we had 30 machines, and somebody would think about
20 a good modification in either software, hardware, some
21 tweaking here and there.
22
          And without me being informed or other people
23 being informed, most likely, (b)(6); (b)(7)(C)
                                               would just
24 take the machines and try to, you know, repair all of
25 them at the same time, and now we would have no
0230
1 machines left to demo or do anything with. So that's
   what usually happens.
3
         So when he's referring to his -- his "We're
   not planning on running anything on ML, unfortunately.
5
   The GC in ELISA assays are not" --
6
         THE REPORTER: Can you slow down.
7
         THE WITNESS: Sorry.
         "The GC" --
8
9
         THE REPORTER: We're not running anything on
10 ML --
          THE WITNESS: " -- unfortunately. The
11
12 general chemistry in ELISA assays are not performing
   adequately for a demo at the moment." He's talking
   about just for that moment and most likely for one or
15 two devices that he had access to.
16
          Sorry.
17
          BY MS. CHAN:
18
       Q And so when you're writing back to Ms. Holmes
19 and you're saying, "Very frustrating," you're
20 frustrated because the one or two miniLabs are -- are
21 not working properly?
22
         Yeah. It's frustrating because again, this
23 is 2013, so this is fairly early. We were still a
24 small company. I have always wanted a certain setup
25 ready for me to be able to demo anytime I wanted. And
0231
   the R&D guys -- our R&D guys, they would take my
1
   machines away. Sometimes they would come to my office
   and take my machines away.
         And -- and that used to frustrate me. I
4
   actually used to literally hide machines in my office
   and lock my office before I went home, but people would
7
   still find a way to take them.
8
         BY MR. KOLHATKAR:
9
          Are you saying people would find their way
   passed your locked door or just go in when you -- when
11
    it was unlocked?
12
          Probably both.
       A
```

13 Did you ever raise any concerns with people 14 entering your locked office? 15 A No. These -- these guys were working hard. 16 I didn't want to be any harder. I mean, they were 17 doing the right thing. It's just that sometimes I 18 would have preferred to keep my machines because I was 19 coding also. It was not a concern for me, it's just 20 that -- the frustration that we didn't have enough 21 people, enough processes, enough devices. 22 And most -- like I said, most of the times, 23 if I had a device in my office it means I'm working on 24 it, I'm writing code. Not, like, using it, but I have 25 the whole thing open and I'm writing code on it. 0232 1 I'm going to hand you another document that's 2 been previously marked as Exhibit 202. Do -- do you recognize Exhibit 202? 3 Yeah. This is an e-mail from (b)(6); (b)(7)(C) 4 5 to myself and Elizabeth. And it -- and it looks like after (b)(6); (b)(7)(C) 7 e-mailed, Ms. Holmes responded; is that right? 8 Yes. 9 Q And this is in the August 2013 time frame? 10 A Correct. Yes. What was happening with Theranos's 11 12 relationship with Walgreens in the August 2013 time 13 frame? 14 A I mean, it was good. We were moving along 15 and marching for a launch at Walgreens in the fall, 16 September, October, November time frame. 17 Q And so, to your understanding, when did --18 when did Walgreens sort of settle on -- Theranos and 19 Walgreens mutually agreed upon on a launch date? 20 A I think it happened during -- sometime during 21 2013. I don't remember exactly when. But it was -- in 22 2013, I think around March, we started doing some dry 23 runs in Arizona, and we had decided that when we are 24 ready, we will launch and pick a date. I don't 25 remember exactly when and how we picked the launch 0233 1 date. 2 And actually, if I may add, even when we did quote/unquote launch in September, it was only at one store and we were not seeing patients for -- for another month or so. We were just inviting friends and 6 family to get the processes and work there sorted. 7 So what you're saying is that the September 8 9th launch was sort of a soft launch? 9 Yeah. We used to actually call it "soft 10 launch." 11 Q And then at some point later in time, it 12 opened up for -- more broadly for more actual patient 13 testing? 14 Correct. I think around November, we opened Α

```
15 more -- two more stores in Arizona, and that basically
16 became quote/unquote the launch. Now we had three
17 stores.
18
          The -- (b)(6); (b)(7)(C)
                            e-mail to you and Ms.
       O
19 Holmes references a number of devices being played --
   placed at -- it says, "The following devices are
20
21
   planned to be in the demo interview room."
22
          What room is that? Is that -- is that that
23 sort of mockup Walgreens space room that you described
    or something else?
25
          No. This is a small room adjacent to our
0234
1 conference room. We had a large conference room like
   this, and right next to the conference room, there was
   another room door to a small room which we usually used
   for interviews, but sometimes when the conference room
5
   was full, we would overflow stuff in there.
6
         And we -- we also used that as a break room,
   just like you guys are giving us a break room there, so
   if the visitors wanted to use the small room, they can
9
   use that room.
10
       Q And what's he -- what's he asking about what
11
   he should set up?
       A Let me see. "If you have any questions" --
12
13
          (Witness speaking in sotto voice.)
14
          THE REPORTER: Can you read to yourself,
15 please.
16
          THE WITNESS: Oh, sorry.
17
          (The witness examined the document.)
18
          I think there's one question he's asking,
19 Question Number 5. Is that what you're referring to?
20
          BY MR. KOLHATKAR:
21
       Q Correct.
22
       A We had an H1N1 demo app, I think, we had
    loaded -- we had created that allowed us to -- the
    example that I gave you where you're collecting
25 demographic data but not running anything, because
0235
   you're not running H1N1 in your conference room. I
1
   think this is what he's referring to.
3
      Q I guess, can you -- can you walk me through
4 why it would be helpful to have so many different
   versions of a -- of Theranos's processing units in a
   room for a demonstration?
7
          Yeah. This -- this would be a fairly
   typical, normal thing because most of the times when
   Elizabeth and my -- myself were in a meeting, we were
10 talking about our future vision, our strategy. So we
11 would bring out, you know, the three or four devices
12 that we are currently working on and -- and show them,
13 "Look, these are the capabilities of this one. This is
14 4.0. It can do this, but it cannot do this. But here's
```

4.S. It will be able to do this. And then in thefuture, you can do XYZ." And that would trigger a

17 discussion around, you know, what else should we have 18 in the device.

19 For example, this idea of the camera that I 20 talked about, it came from one such discussion. That 21 it would be useful if we can have a camera on the 22 device. I initially thought the camera would be useful 23 for the lab director to talk to somebody in the field, 24 like one -- at some point when we have a unit in the 25 field at Walgreens, if a phlebotomist has a question, 0236

1 they can just videoconference the lab director.

2 But other people who -- who visited us said, 3 "Why don't you think about telemedicine." Because telemedicine was heating up in 2012 and '12. We were 4 already thinking about telemedicine. But to use the 5 6 camera on the device was -- as part of those discussions, this came about. 7

Q I'm trying to understand Number 4 here, which 9 says that -- the sentence in -- it says, "Note that 10 this will not be able to run the null protocol due to old pipette nozzles that fall once they initialize in 12 the protocol."

13 Α Yup.

8

18

7

14 I guess, based on your description of what 15 the null protocol was designed to do, I'm trying to understand how a pipette nozzle could -- could fail in 17 that --

That's a good question. Yeah. So I'm going 19 to go a little bit more in detail in code on this one.

20 What happened was: I told you -- I mentioned 21 earlier that we had three different -- when I came to 22 the company, everything was running using Linux, and then we had a third operating system in the device 24 called RTOS, realtime operating system.

25 So by this time, we had three different 0237

1 operating systems in the device. That means three different groups of people were writing different apps. Anytime you initialized the device, each group wanted to do their own thing in the device to make sure the 5 device is okay. Right? 6

So the software guy at the -- the Windows tier would, you know, make sure the cartridge is properly aligned, and they would do a few things. The tier below that, which is the embedded software system 10 I have referred to, in the code, they had their own 11 system check.

12 So when you -- before you opened the door or 13 you closed the door, they would send a command to the 14 whole system that's saying, "Check yourself. Make sure 15 everything is okay." And as part of that check, the 16 pipette would check itself.

17 Now, they're not supposed to do anything 18 again. But again, this is R&D, and we were still

writing code, and I was bringing -- the seamlessness of 20 the software still wasn't in place.

21 So what happened was: We would issue a reset 22 command. Every stack would reset itself, and some of 23 the old code that was responsible for resetting the 24 hardware pipette would also try to do something with

25 the hardware -- the pipette, and that's what is 0238

1 happening here.

2

5

7

10

12

22

3

4

7

19

And it would -- apparently in this case, what I read is: The old pipette -- which makes sense. That means it's the old code -- nozzles that once -- failed once they initialized in the protocol. So that's what 6 is happening.

Q In connection with any demonstrations, did -did you ever instruct anyone at Theranos to move a large number of its TSPUs to the CLIA lab?

The TSPUs were always in the CLIA lab -- or 11 for most of the times. So if we moved the TSPUs there, it probably was to demonstrate something that we were 13 trying to get across rather than just draw pictures.

14 The TSPUs are really easy to move. You can 15 put 50 of them on this table and move them around. And 16 unlike other devices where if you move them from one 17 room -- commercial devices, if you move them from one 18 room to another room, you have to call the vendor and 19 they have to calibrate things, TSPUs -- we actually got 20 CLIA waiver on this thing. You can kick it and throw 21 it down the stairs, and they will chug along.

So if we moved them, it was easy to move 23 them. There was probably a purpose behind it.

24 I guess I'd understood your -- your testimony 25 earlier to suggest that the -- that there was sort --0239

that there was sort of a space within the CLIA lab that 1 2 was designated for -- for TSPU use; right?

- Yes. Inside the Normandy room. Correct.
- The Normandy room.

5 And the Normandy room didn't run any 4 series 6 devices; right?

- A No, it did not.
- And, in fact, no 4 series device was ever used in the CLIA setting; right?

A Not in the CLIA setting, but I do believe 4 10 11 series devices were taken inside the Normandy lab for

12 R&D purposes. It's not exclusive use. Like I said 13 earlier, if you have anything -- we were doing product

14 development in the CLIA lab too, which is why R&D guys

15 were going there. But if you have anything in the CLIA

16 lab that is not being used for patient samples, you

17 just need to put a sign on it saying, "Not being used

18 for patient samples."

So yes, they were being -- as a matter of

20 fact, the FDA filing that we did for HSV-1 or even, I

- 21 think, for the Zika and other tests, the -- the 4.X
- 22 devices would be in the CLIA lab in some cases, yes.
- 23 Q Did you ever instruct anyone to put
- 24 additional 4.X devices for a Walgreens tour of the CLIA 25 lab?

0240

5

7

- 1 A I don't think I gave a Walgreens -- CLIA lab
- tour to Walgreens. It may have been some other lab. I
- doubt I gave a CLIA lab tour to Walgreens. Which time
- 4 frame was it?
  - Q I'm just asking broadly.
- 6 A Sorry, I'm not supposed to ask you questions.
  - I don't recall the tour. As a rule, I would
- 8 have not given a tour to Walgreens for the CLIA lab
- 9 unless it was very early in our process where the CLIA
- 10 lab was light. But even then, I don't think we took
- 11 them to the CLIA lab.
- 12 Q What is BDT Capital?
- 13 A It's a -- I actually don't know what their
- 14 full business is. But it's a financial -- our
- 15 relationship with them was: They were a consulting
- 16 company. We had hired them as financial consultants to
- 17 help me and Elizabeth with thinking through a few
- 18 things about the company's future.
- 19 Q At some point in time, did they also become a
- 20 potential investor of Theranos?
- 21 A They had a great interest in investing, and
- 22 they, you know, mentioned very large amounts. But we
- 23 didn't have any interest in them investing. We didn't
- 24 think they were strategic investors. But they had
- 25 mentioned 600 million or more as part of a deal. They 0241
- 1 wanted to do some kind of structured deal, and we had
- 2 no need to do that. But they had great interest in
- 3 investing, but we -- we had not, we didn't have any
- 4 interest.
- 5 Q So from your perspective, at any point in
- 6 time you -- in 2014, you didn't have any interest in --
- 7 in receiving funds from BDT Capital?
- A No, I'm sure initially or at some point when
- 9 we engaged with them, we did have a conversation
- 10 with -- for them being potential investors, which is
- 11 why, you know, the whole conversation about -- the --
- 12 the ability to reach a decision that we don't want them
- 13 as investors. But I don't think that lasted for too
- 14 long.

- And initially, I think right off the bat,
- 16 they were talking about structured deals and financial
- 17 instruments. And we were a conservative company. We
- 18 didn't want to necessarily do that.
- 19 Q Did you meet with representatives from BDT
- 20 in -- in the 2014 time period?
- 21 A Yes, I did. We had, like I said, engaged
- 22 them as consults. They helped me a lot with my -- my

- business planning tool, the model that we talked aboutearlier.
- Q Who do you remember meeting with from BDT?
- 1 A I think the -- the principal of BDT's name is
- 2 Byron Trott. I met with him two or three times. And
- 3 there were two other people from his company, or maybe
- 4 three, who had attended those meetings. I don't
- 5 remember their names, unfortunately. But I remember
- 6 meeting them. And it was their principals, all these
- 7 associates who would help me with the financial model.
- 8 We sat in a conference room, went through the financial
- 9 model, the assumptions, and them -- them advising me.
- 10 Q I'll hand you what's been previously marked 11 as Exhibit 203.
- 12 A Okay.
- 13 Q Do you recognize Exhibit 203?
  - A Yes. It's an e-mail exchange between I think
- 15 Christian Holmes, and myself, and Elizabeth Holmes.
- 16 Q Do you recall making arrangements for members
- 17 of the BDT team to receive a demonstration at a
- 18 Walgreens?

- 19 A I personally don't recall because I was not
- 20 involved with managing who is doing -- getting what
- 21 demos. But I was not personally involved. I don't 22 recall.
- Q Who -- who would be managing who would be getting the demos?
- A I think if somebody wanted to get a 0243
- 1 demonstration, it may have come up in the meetings,
- 2 saying, "Hey, can we get a demo?"
- And we would have said, "What do you want to do?"
- 5 "Oh, we want to do finger stick" or whatever 6 they want to see.
- 7 And we'd say, "Yeah." (b)(6): (b)(7)(C)
- 8 (b)(6); (b)(7)(C) would usually be available
- 9 in the conference room for any follow-up action items.
- 10 And we'll say, "Okay. Work with them. They'll get it 11 done."
- 12 Q The -- for -- for demonstrations done at the
- 13 Walgreens setting, that -- that would be under the CLIA
- 14 framework; right?
- 15 A Yes.
- 16 Q And if someone -- if someone wanted a -- just
- 17 a demonstration of the finger stick technology, they
- 18 didn't necessarily need to go to Walgreens, right, they
- 19 could do that at -- at Theranos headquarters?
- 20 A Technically speaking, yes. Actually, let me
- 21 qualify my first answer. It is possible for somebody 22 to have asked for a demonstration of the process -- of
- 23 the Walgreens process, like how do you check in, what
- 24 does the patient go through. But it is possible that

25 on the back end, we would add on tests that were not in 0244 1 the CLIA, then it no -- no longer would be a CLIA demonstration. 3 So we are still demonstrating to them our 4 workflow in Walgreens, what our setup looks like, how 5 our rooms look like, how our patient sample collection process looks like. All of that -- most of that could be done at Theranos headquarters, but obviously not all of it. But it -- it wouldn't necessarily be CLIA. I misspoke earlier. So I just want to correct that. 10 Q In California, was it your understanding that 11 you could add tests on to a -- a doctor's order and --12 for -- for -- for someone trying to get a demonstration 13 in California? 14 A Yeah. For demos, as long as you're not going 15 through CLIA lab, no problems. My point I'm -- I was 16 making, just to clarify, is: There's a distinction between the -- what you do through the lab and what 17 18 you're doing at a PSC or patient service center, 19 collection site. People can go to the patient --20 collection site, and we can do clinical studies there, 21 we can do R&D samples there. That's not an issue. 22 The only point I was making is: If the 23 sample is collected for CLIA processing and it goes to 24 CLIA, then if you're going to add on a test, the 25 request has to come from an authorized party, like a 0245 1 physician. So physicians, of course, can add tests. 2 Q As a -- as a general rule, if a physician requests the test, would that -- would that fall under the CLIA framework? 5 A Yes. 6 O So if you take a look at these --7 I'm sorry, unless either the physician or the patient has overridden saying, "I have a lab order. I want to do these tests, but, you know, but these are 10 the tests I'm interested in." But those may or may not 11 go to the physician. The -- the patient could override 12 dropping tests also. 13 O I guess, just so I understand it, a patient 14 couldn't add tests to its doctor's order --15 A For a CLIA ---- for a CLIA lab run --16 O 17 A Correct. -- but it could drop tests for a CLIA lab 18 0 19 run? 20 Yes. Yes. Α 21 And the distinction you made there was: If 22 they drop tests, it wouldn't go to the physician? 23 A No. That was a separate point. 24 O Okay. 25 If the -- in our case, for example, if

```
somebody wants to just see the process, how it works,
   then they can still bring a -- I mean, you can bring a
3
   lab order from your physician and say, "I would like to
   demo." And in that case, we can do all those tests, put
5
   our physician's name on it, and the results would not
   go to your doctor. Or if it is just a pure tech demo,
   then we are just using the lab order just to transcribe
   what tests you want to get done. But then neither our
   doctor or your doctor is involved. It's just a pure
10
   demo.
11
          Make sense? Then -- but then in that case,
12 it's not CLIA anymore.
13
       O So take a look at the -- the workflow (b)(6);
14 (b)(6); (b)(7)(C) is proposing here. Actually, why don't -- why
15
   don't we start earlier in the chain.
          It looks like it starts out with (b)(6); (b)(7)(C)
16
17
    asking the -- the names of -- of the people
18
    mentioned --
19
       Α
           Yes.
20
       O
          -- who would come -- who would visit WAG on
21
    Saturday.
22
          Did you understand that to be the WAG patient
23
    service center?
24
           In Palo Alto, yes.
25
            And then it looks like you follow up and you
0247
   ask (b)(6); (b)(7)(C)
1
                   to -- to send the list of names?
2
       Α
           Yes.
           Who is (b)(6); (b)(7)(C)
3
       O
4 (b)(6); (b)(7)(C) ?
5
      A
6
       Q
                                     Sorry.
7
          And then it looks like he -- he follows up
   with -- he starts out by saying -- (b)(6); (b)(7)(C)
9
   out by saying, "Also wanted to send along our thoughts
10
    for how to accomplish the FS in the scenario their
11
    order is prompt venous. Assumptions here from EAH are
12
    that we must not do venous draw and we cannot tell them
13 that their order prompts venous if it does."
14
          Do you see that?
15
       Α
           Yes.
16
           What do you understand this to mean?
           Well, I think what (b)(6); (b)(7)(C)
17
                                            is trying to do
18 is -- he's already spoken with Elizabeth at this point
    that they want the patient to only get finger stick,
20
    and it's probably because they had already spoken that
    they want to experience finger stick. In this case, I
22 mean, I would have described the process differently
23 than the way (b)(6); (b)(7)(C)
                              has done here.
24
           But the software takes care of a lot of
25 details automatically. A lot of details that he's
0248
1
   putting here are automated in the software. He didn't
2 have to, you know, define what is happening in the
```

```
3
   software.
4
          But what he's saying here is -- my
   understanding is that if a venipuncture happens, we
   have already decided we are doing finger stick. Right?
   That basically means one of the two things happen, at
7
   least two things happen. One is: Either there's a
   test that triggers venipuncture happened or the
10
   combination of all those tests triggers venipuncture.
11
    That's what happened. And he's --
12
           Sorry to interrupt. From the order, right,
13 the order --
14
       A Correct.
15
          -- is the -- is the data point that -- that
16 triggers it one way or the other?
       A Correct. Yes.
17
          So what happened -- used to happen in our
18
19 case was: When you bring a lab order, we had built
20 this beautiful system where you will scan the lab
21
    order, it goes to the Cloud, and the machine learning
22
    algorithms will do a major analysis and try to
23 transcribe it so humans don't have to do it. And if it
24 is not accurate, then the human can click, click,
25 click, and override it.
0249
          But in cases where we know that it's
1
2
   triggering a venipuncture, there's nothing you can do.
   The order goes back to the technician in the Walgreens,
   and Walgreens will just basically say, "Sorry, it's
   venipuncture." Right? It will not be able to override
   and say, "I'm going to drop some tests. Tell me which
   tests you want to drop." It was not part of the
   workflow at this point yet.
9
      O
          So it looks like Scenario 1 --
10
       A
          Yes.
           -- involves Use Case A. And it says, "One
11
    option, Use Case A." The bullet point below says,
    "Remove tests that are not yet on FS and complete
13
14 transcription."
15
          So is that basically suggesting drop some
16 tests from the order and then proceed with the finger
17
    stick?
18
       A Correct. And what he's trying to do is:
19
    Basically try to automate this interaction that this
20
    person would have had with the Walgreens technician.
    The -- the net result of all of this is: This is what
22
   he was trying to avoid, the interaction this person is
23
    going to have with the Walgreens technician.
24
          Because if this person says, "Hey, how come
25 you didn't do that test," Walgreens' techs usually were
0250
1
   not trained, and they had no idea, by the way, what --
   what was the answer. They will just say, "It's just
3
   the way it is, or I can just do venipuncture."
4
         By default, it will do venipuncture, but if
```

you want to override that, somebody on the back end had to override that is what he was trying to do. 7 Q Okay. 8 Yeah. Α 9 And it looks like -- he said, Use Case B as 10 sort of another scenario that's set up in order to -to allow the test to proceed by finger stick. Do you see that? 12 13 Yes. Yes, I do. 14 And it looks like the negatives, the second 15 bullet point --16 A Yes. 17 O -- says, "If they notice missing tests on the 18 receipt, they may ask the WAG tech about it. Worst case, they would make a call to CS -- " 20 What's CS? 21 A Call center. 22 " -- and Anam would tell them everything is 23 fine." 24 A She's the -- one of the people in the call 25 center. 0251 1 Q "And CR will also be able to come out of the draw room once checking is complete to welcome them into the room and distract from looking at the receipt." 5 A Yeah, this is really stupid. I -- I wish I had read that at that point. And -- but I don't condone this. What he was trying to do was: In order to avoid the negative interaction that this guest was going to have with the Walgreens technician, create 10 this so that the technician at least at Walgreens 11 doesn't have that interaction. 12 Now, it will be impossible for this patient 13 to not know which tests were not done. The reason is: 14 It's in the software. When you print a receipt, the 15 receipt shows what tests were done and what were not 16 done because even if you send the order to the 17 insurance company, that's the part that I think he's 18 missing is: They will be printed on the receipt. 19 There's no way around it. And the second thing is: 20 When you send the results back, if something is not done, it's not there. You would be able to tell the 22 test was not done. 23 I think what he's trying to do here is avoid 24 this person having that interaction with the Walgreens 25 technician. Because this is the only thing you can 0252 accomplish here. Like I said, it's impossible to hide 2 from the patient what tests were not done or what were 3 4 Now, I don't think this actually happened, by 5 the way. I didn't pay attention to this e-mail then, but I don't think this was actually ever carried out,

to the best of my knowledge. 8 How do you know? 9 I would have heard about it. I mean, 10 something like this where somebody is violating the SOPs, I was always a stickler to that. That I would --12 I would like to find out if something is happening. 13 I mean, a cynical person could read this 14 and -- and think that what (b)(6); (b)(7)(C)is trying to do 15 here is hide the fact that Theranos does venous 16 draws --17 A Yeah, which is --18 -- from the BDT folks here. 19 Yeah, which is the stupid part because venous 20 draws are a known fact. I mean, a lot of our investors actually did go to Walgreens, did get a venipuncture. It's a common practice that we did. Actually, you could call our call center and say, "This is my lab 24 order. Is it going to be finger stick or 25 venipuncture," and we will say, "It's going to be 0253 1 venipuncture." 2 So it's well-known common information. And 3 in this case, this person, which are not an investor, a consult wouldn't already -- would find out that some 5 tests were dropped and --6 Q If they read their sort of blood order in 7 detail; is that right? 8 A Yeah. In most of the times when you're doing a demonstration, people did read it, and if there was something is missing, people would say, "Something is missing." But this is a poor way of trying to accomplish that outcome, in my opinion, a very poor 13 way. 14 Q Did you participate in this conversation that 15 appears to be referenced between -- sort of per EAH --16 assumptions here from EAH? You said earlier that you imagined there were some conversation between (b)(6); 17 18 (b)(6); (b)(7)(C) and Ms. Holmes about this? 19 I mean, this is what it alludes to, that 20 somehow this information was requested that make sure they get -- they get to experience finger stick. But I 22 unfortunately didn't read that e-mail back then. Like 23 I said, this was not necessarily a very important 24 customer for me, so I didn't necessarily pay attention. 25 I wish I had because I would have probably responded to 0254 1 this but. But yeah. But I was not part of the conversation at that time. 3 All right. So you don't recall a conversation where Ms. Holmes gave the instruction that 5 he alludes to here? 6 A Correct. No, I don't. 7 Did you ever hear Ms. Holmes give the instruction that demonstrations -- certain

- 9 demonstration should only be conducted by finger stick?
  10 A Yeah. I did that too. I mean, a lot of
  11 times when the customer says, "I want to experience
  12 your finger stick" at Walgreens -- and in some cases,
  13 we would just create the order ourselves
  14 electronically. So we would just go and create an order
- saying, "Your order is ready. Just show up and you'll be able to see it." But if the patient says, "No, no,
- 17 I'm going to bring my lab order," they would bring the
- 18 lab order. And I would say, "If you want to do finger
- 19 stick, then here's the process. These are the tests we
- 20 will not be able to do." And we will still set the

21 patient up this way.

5

14

- But a lot of times people just went on their
  own. I mean, that's the whole point of being in
  Walgreens. There was a few people from PFM who also
  went there, the hedge fund, and -- and got a test done.
  0255
- 1 And there was actually one guy, he sent them an e-mail 2 saying, "I went there. It was venipuncture, but I got 3 stuck with the needle, and -- but the entire process 4 was really cool."

So people did that all the time.

- 6 Q Other than the PFM -- do you remember the 7 name of the PFM person who --
- 8 A Yeah. I think his name was Brian Healy, is 9 my -- is my recollection, but I could be wrong.
- 10 Q Do you remember any other investors or 11 prospective investors who sort of reported getting 12 venipuncture --
- 13 A I don't know --
  - O -- from --
- 15 A -- but I -- I mean, first of all, it's in the 16 database, so I would not know. But I know there were 17 people who would go to Walgreens to get a lab test 18 done.
- Q I guess if -- if someone is coming, you know, just to experience the finger stick, and they're -- I'm still trying to understand if the value of the demonstration is the finger stick, what's the value in going to Walgreens?
- A To see the Walgreens process. That's the point I was going to make is that it's not just finger 0256
- stick. If it was just the finger stick, you can do it
  right there at headquarters. Not an issue. In this
  experience, clearly, this person wants to experience
  the whole Walgreens experience.
- Actually, in some cases, or many cases, we used to insist that people go there because the space there was really, really nice. We had built our space the way we wanted a lab to look like, you know, with a nice couch, with flowers, and a TV, and fish floating, and calming people down with the calming Zen music.

```
11
          So we -- we did want people to go and see a
12 completely different experience. And the other
13 obviously big value was software. Because once you go
14 there -- if you go to Quest Diagnostics, or LabCorp, or
15 other hospital labs, as I'm sure you already know, it
16 takes 30 minutes to an hour or sometimes multiple hours
17 to go through the whole process. In our case, we had
18 brought it down to two minutes to ten minutes or twelve
19 minutes. So if you were already in our system
    electronically or if you use our mobile app, we could
21
    get you in and out in two minutes. And it happened all
22 the time.
23
          We actually had a scenario in which we could
24 get you in and out in 60 seconds. You could literally
25 park your car. Your iPhone would send us a signal that
0257
1 you're here, with your permission. The phlebotomist
   would arrange everything. We'll put you in the front
   of the queue because you already made an appointment.
3
4
   You'll get in and get out.
5
         So we could do that. So there was a
6 tremendous value in software to be able to show people
   how good we are on the front end.
8
         Do you know if people from BDT got results
   from the demonstration tests?
10
       A I actually don't know.
       Q I'll hand you another document that I'll mark
11
12 as Exhibit 242.
13
          MR. COOPERSMITH: At some point, maybe we
14
    could take a break, but I don't want to disturb if
15
   you're on the same topic.
16
          MR. KOLHATKAR: Yeah. Maybe just one more
17
   document then take a break.
18
          MR. COOPERSMITH: Of course. Yeah.
19
          BY MR. KOLHATKAR:
20
       O So I'm marking as Exhibit 242 a document
21 Bates-stamped TS-1031661.
22
                   (SEC Exhibit No. 242 was
23
                   marked for identification.)
24
          BY MR. KOLHATKAR:
25
       Q Do you recognize Exhibit 242?
0258
1
      A Actually, if you'll give me one second, I can
2
   read this real quick.
3
         Actually, I'm not on this e-mail until the
4 very end. But it seems like an e-mail discussion
   between a few product managers, and one person from the
   call center, and then finally towards the top,
6
  (b)(6); (b)(7)(C)
7
                    sent this to me and Elizabeth.
8
      Q And it looks when -- he sends it to you on --
9
   is that Monday, October 13th at 8:55?
10
       A
           Yes.
11
          He says, "FYI, this is for the BDT individual
12 for whom we couldn't release CMP, but somehow was
```

```
13 released via the app" --
14
       Α
           Yup.
15
       Q
           -- "working through this"?
16
       A Yes.
17
           And it refers to, you know, sort of the
18 normal process by which results would be made available
    through a CLS; is that correct?
20
       A Correct.
21
       Q
           "CLS," what does that refer to?
22
       A Clinical lab scientist.
23
       Q Is that someone working in the CLIA lab?
24
       A
           Yes.
25
       Q
           So does this e-mail chain suggest to you that
0259
1
   someone's results were released before they were
   approved?
3
      A No. What happened was: There was -- I
4 remember this. There was a bug in the software, and
   the BDT guys were having a lot of trouble. As a matter
5
   of fact, if you chase this chain down further, you'll
7
   see somebody highlighted the bug, which we ultimately
8
   fixed.
9
         What happened was: When a CLS had -- either
10 released them or not -- or actually, had seen the
   results, but there was another step in which before the
12 results were released to the iPhone user, the enduser,
13 somebody had to provide final oversight.
14
          And in this case, when somebody in the lab
15 changed the status of a batch of results, even though
16 it was not released to the physician, it got released
17 to the patient. And that's what happened here. I
18 remember this.
19
       Q
           So I guess the -- the results were
20 released --
21
       A If you look at this one, there, I think, the
22 results were tagged for a redraw.
23
           Right. So this is the CLIA -- CLIA setting;
24 right?
25
       A Correct.
0260
1
      Q And so a redraw means Theranos shouldn't
   report a result --
3
      A Correct.
4
          -- but somehow a result was reported to --
5
      A
          Correct.
6
      O
          -- to this individual?
7
          Correct. And because a redraw was requested
8 because we didn't have confidence in the results, as is
   the case, this SOP, that we should have not -- these
10 results should not go out. What should go out is
   invalid results or whatever the language CLIA uses with
12 a recommendation for a redraw recommended.
13
           Do you know if Theranos followed up with this
14 individual from BDT to instruct them to get a redraw?
```

- 15 A I think so too. Yes, I believe so. Actually, we were thinking about even flying somebody 16 17 to Chicago for a redraw if he wanted to. 18 Q Why would you do that? 19 Because this guy is from Chicago. 20 No, I understand. But this is -- you 21 described this BDT as sort of an advisor. I guess, why 22 would it be so important? 23 A Because this is the CLIA process we were 24 following. This was not a technology demo from what I 25 remember. This actually went through the CLIA lab. 0261 1 And as a courtesy when you have a redraw recommended -we didn't have a phlebotomist in the Chicago area at that time. If they came back to our PSCs, no problems. But we thought about should we even fly somebody there. 5 No, we didn't. I don't think we did. 6 But that's why I remember this because it 7 came to me -- my attention at some point. And because 8 this was also a software bug is why it kind of stuck in 9 my head. 10 BY MS. CHAN: 11 Q Did you ever notify this person from BDT that 12 the results -- that you weren't confident in the 13 results that had been released to him? 14 My guess is yes. That was the normal CLIA 15 SOP. So that should have happened. That's my 16 expectation, is the follow on to the next -- in the 17 e-mail, this e-mail, I know the software did get fixed 18 because that was my responsibility, to chase down the people who released the software in production. But as part of the CLIA SOP would be that we are doing a --21 requesting a redraw. 22 Q So you think he might have been apprised of 23 it, but you don't know what he was told? 24 A I don't know for sure. I don't remember.
- 25 But what I would say is: I'll be very surprised if it 0262
- 1 didn't happen. I would say we did correct it, I mean,
- 2 on his app, he would see redraw requested, and he would
- 3 be notified that there's a redraw requested. And the
- 4 results -- don't pay attention to the results. They
- 5 are inaccurate and a redraw is being requested.

## BY MR. KOLHATKAR:

- Q If he reopened the app?
- A No -- well, if you reopen the app, you will
- 9 not see it. But I think our normal lab protocol was:
- 10 If the results went to his physician, then that would
- 11 have happened also.

6

7

- 12 Q Whose responsibility would it have been to --
- 13 to request the redraw?
- 14 A I mean, CLIA lab. Technically, CLIA lab
- 15 would do it. But in this case, because we had project
- 16 managers involved, my guess is: Some PM probably took

```
17 it upon himself to say, "I will make sure that
18 happens."
19
       Q So that's -- that's sort of a related
20 question. What were -- what were the PMs' roles in the
21 CLIA lab space?
22
       A Well, the CLIA lab space had a lot of people
23 in roles where you can be assisting. You don't have to
24 be necessarily processing samples. For example, the
25 people who work to check you into a CLIA lab, they have
0263
   a certain role in the CLIA lab, people checking you in
1
   at the PSC, at the patient service center. The PM's
   job was facilitating communication, making things move
4 faster, making sure if the customer is somebody who was
   in -- in a meeting that I attended or Elizabeth
   attended, that they get their results correctly or in
   time before I speak with the customers first.
7
8
         So in the CLIA lab, a lot of the samples were
   processed in batches, as I told you earlier, but if
10 there's a sample that I wanted processed right away,
11 they would also call the CLS or somebody in the lab
12 saying, "I need this sample processed right away." I
13 know the normal process is to wait for eight hours, but
14 of course you can process a sample in the CLIA lab
15 anytime you want. But the right person who was trained
   and authorized can come and process this sample.
17
          So this is kind of what they did besides a
18 thousand other things. But in the CLIA lab, this was
19
    their main role.
20
          MR. KOLHATKAR: Why don't we go off the
21 record at 3:08 p.m.
22
          THE VIDEOGRAPHER: Off the record 3:08.
23
          (A brief recess was taken.)
24
          THE VIDEOGRAPHER: Rolling.
25
          MR. KOLHATKAR: We're back on the record at
0264
1 3:21 p.m.
2
         BY MR. KOLHATKAR:
3
      Q Mr. Balwani, just to confirm, you didn't have
4
   any substantive conversations with the staff during the
5
   break; is that correct?
          That's correct.
6
7
      Q I'm going to hand you a document that was
   previously been marked as Exhibit 205.
      A
          Okay.
          Do you recognize Exhibit 205?
10
       Q
11
       A I do.
12
       O
           What is it?
13
           It's an e-mail conversation between myself,
14 (b)(6); (b)(7)(C)
                                         and Elizabeth is
15 CC'd on some of this communication towards the end.
           So it looks like on the next -- on the second
16
17
   page, THPFM0000331113 --
18
       A Uh-huh.
```

```
19
          -- there's an e-mail from you on December 29,
20
   2014, at 9:37 p.m. It says, "Run manually, but it
21
    needs to be accurate"?
22
       Α
          Yes.
           What are you instructing (b)(7)(C) there?
23
           So -- and let me actually give you a
24
25 background on this one.
0265
1
          We had a test called PT and PTT that was
   originally available in the CLIA lab from finger stick.
   And we removed that test at some point because there
   was not enough volume, which is again a very common
5
   thing to do in a CLIA lab. They're not like iPhone
   apps, when you install, they can stay there forever.
```

If you have a test in the CLIA lab, then you have to QC

it, calibrate it. There's a lot of manual labor that

11

9 goes on maintaining a test live, quote/unquote, in the 10 CLIA lab.

So this test had low volume. Even though it 12 was finger stick, we removed it because the overhead of 13 maintaining this in the lab was too much.

14 So in this case, we are trying to -- I think 15 this -- this customer may have requested a PT and PTT 16 test. Now, we had it available in our company from 17 finger stick. So I asked the team to resurrect it in 18 the R&D environment and run it.

19 I think it has a comment here that somebody 20 says that, you know, trying to bring it on a -- the -the Tecan device, the T. rex that I already mentioned, 22 will be more work. It will be easier, if it's just one sample, to do it manually. Manually basically means 24 instead of using a robot to take -- carry out a lot of 25 the steps, a human can do it, which is again a common 0266

thing in a CLIA lab. And no big deal. And R&D for 1 2 sure. But it is our assay, our reagent that's being 3 used.

4 So in this case, we are using our reagents, our chemist -- chemistry, our protocol to run this. Instead of running it automatically, we are running it manually, is what I'm saying.

8 So what I recommended here -- asked here is saying, run it manually, but it has to be accurate means make sure that -- in a CLIA lab, things are not just accurate or inaccurate. There's accuracy 12 precision levels. So, you know, if a test in a CLIA lab requires that you have to be within 10 percent CV, coefficient of variation, that's acceptable in a CLIA

15 lab. But if it is 15 percent, it's off. You are,

16 like, more than, quote/unquote, accurate, according to

17 CLIA lab standards.

18 So what I'm saying here is: Yes, you can run 19 it manually. Obviously, I knew this was not in the 20 CLIA lab because I told them to run it even though it's

21 not in the CLIA lab, but make sure it's accurate as in 22 it fits into the CLIA lab CV. 23 Q So I guess I'm trying to understand that. So 24 if it's -- if it's not being run in the CLIA lab, why 25 would it be important to run it within the CLIA lab CV? 0267 1 Because as a company, we had a lot of 2 technology that's not in the CLIA lab that we still want to be able to demonstrate to people. 4 For example, there's a lot of software that 5 we had which was not in production yet, like the mobile app that I talked about, that we used to demonstrate to people a lot of the times, and even actually installed them on people's devices before it was on the app 9 store. 10 So here, what we're saying is: No, we have 11 the capability to run this test. We just don't offer 12 it in the CLIA lab because it no longer, you know, had 13 the volume requirements, but we have the technology. 14 And I think I had -- saw here somewhere mark --15 somebody talked to me and said, mark this as a 16 technology demonstration, which is correct because it's 17 no longer being run in the CLIA lab. It's a tech 18 demonstration. And -- and that's what we are saying. 19 So there's nothing wrong with showcasing or 20 even showing off our technology if you can do something 21 that others just cannot do. 22 So if you look at the e-mail right before the 23 one that I was just asking about --24 Uh-huh. 25 -- it's (b)(6); e-mail to you on December 29th, 0268 1 2014, at 7:54 p.m.? 2 A Uh-huh. 3 Q He references "A bit more complicated than originally planned for (b)(6); (b)(7)(C) 5 Do you see that? 6 A Yes. 7 Do -- do you take that to mean that this is 8 for a demonstration for  $I^{(b)(6); (b)(7)(C)}$ ? 9 Seems like it, yes. Because like I said PT and PTT is not in CLIA. So I'm assuming you're asking where there's a demonstration of CLIA or is it for  $\frac{(b)(6)}{(b)(7)(c)}$ 12  $\binom{(b)(6)}{(b)(7)(6)}$  or not. 13 Q (b)(6); (b)(7)(C) Yes, yes. It's from (b)(6), (b)(7)(C) Correct. 14 The -- did you explain to (b)(6); (b)(7)(C) that this 15 16 was going to be a -- an R&D test as opposed to a CLIA 17 test? 18 A Yes. If he got the results -- when we got 19 the results, it would say on the top "technology 20 demonstration." 21 Q I guess my question is a little different. 22 Did you tell him at any point in time that -- that

```
23 technology demonstration meant R&D lab versus CLIA lab?
24
       A I personally didn't. But if it is a CLIA lab
25 report, it will say "CLIA lab report," and signed and
0269
1
   sealed by the lab director. With a tech demonstration,
2 it will say "tech demonstration" clearly on top of the
3
   report.
4
         So he's a fairly educated guy. If he sees
5
   something at the top that says "tech demonstration,"
   that means tech demonstration.
6
7
          The -- it looks like earlier -- or later in
8
   the chain, this is the first page of Exhibit 205, there
   are -- there are some discussion about reporting CL.
10
          Do you see that?
11
          Yes.
       Α
12
       Q
          What is CL?
13
       A I think it's chloride.
          And the question from (b)(6); (b)(7)(C)
14
                                                    on
15 December 30, 2014, at 5:50 is: "Should we report with
    CL pending redraw per usual protocol or better in this
17 to go another route?"
18
          Do you see that?
19
           Yes.
20
          And it looks like at the end of the day, Ms.
21
    Holmes makes the decision "Okay. Don't include on
22 report."
23
          Do you see that?
24
       A Yes.
25
          I guess, why was it appropriate in this
0270
1
   case -- so if you want the, you want the test results
   to be accurate on the CLIA range --
3
          Right.
      Α
4
      Q -- why is it appropriate to drop results
5
   and -- which would presumably not be following the CLIA
6
   protocol?
7
      A Even in -- actually, I think you showed me an
   example earlier. Even in R&D, if we don't have
   confidence in something, we will drop it. Because you
10
   don't want to report wrong results to a patient period.
11
    As much as possible, you want to apply and use the
12 protocols that the patients and the doctors are used to
13 seeing. If you get a typical lab result, if a lab
14 director or the person performing the test has a doubt
    about the test, they don't just put the result and say,
15
16 "Oh, by the way, I'm not so sure about this." You just
17
    don't report it just in case somebody relies on the
18 result incorrectly.
19
          Because people will say, "You know what? I
20 don't want to get a redraw done. This seems good
21
    enough." And may rely on it. So it's better and safer,
    anytime you have a doubt, not to report something. And
22
23
    that's a fairly well-understood and -- and followed
   protocol in the lab industry in general. And the R&D
```

25 guys, to the extent possible, should be following it. 0271 1 At this time -- this is also 2014, end of 2 2014, so our processes have matured by this time. So 3 even the R&D guys -- actually, I think even the report, if you look at the R&D reports, were mimicking what the 4 CLIA lab reports did. They're not like the rough reports that we saw earlier. I think they were getting 6 7 better by this time. 8 I guess I'm still trying to understand. So if you were trying to mimic the CLIA process as much as possible, why is Ms. Holmes deciding what should and should not be included on the report? 11 12 A Because this decision is not a lab director 13 decision. This is a technology demonstration. We talked earlier who are the people who could make decisions in R&D, and R&D does not have any SOP or 16 requirements that, you know, a person, a VP of R&D, has 17 to make a decision. Other people made decisions. 18 Now, there has to be a good reason to make a 19 decision, a good clinical reason to make a decision. 20 As you can tell by spending a lot of time with the CLIA 21 lab, I acquired a lot of knowledge of what the SOPs in 22 the CLIA lab are. So, you know, I could probably make some decisions, but obviously in CLIA, I won't. But in 24 R&D, I would say I would be able to make them. So I 25 think it's the same thing you're seeing here. 0272 BY MS. CHAN: 1 2 Q But even if it wasn't a requirement for the lab director to be making decisions on these technology demonstrations, why not let the -- why not have the lab 5 director review? Because as you said, you want to make sure that the results that are being sent to these 7 people are accurate. 8 Yeah. I mean, I think that would be an 9 additional layer. That would be just a good idea. But it was not a requirement. Honestly, we didn't think about that, to necessarily include the lab director. 11 12 There are a lot of qualified people here who are working. (b)(6); (b)(7)(C) 13 brought a phenomenal 14 background in clinical chemistry. 15 So it's not like we had a lack of confidence 16 in the people involved in making a decision. It was 17 just adding one more person. And I think you can 18 extend the argument by saying if you have two lab 19 directors, maybe both of them should look at it. 20 Right? But it was that we already had enough qualified people who I thought -- we thought were looking at 21 22 these results. And (b)(6); (b)(7)(C)23 ultimately did become a lab director in Arizona just two months later. Why was (b)(6); (b)(7)(C) 25 looking at this as 0273

opposed to (b)(6); (b)(7)(C) ? You mentioned, you know, 2 why have two lab directors? You already had someone who was doing it. But why not have (b)(6); (b)(7)(C) 3 since he is the lab director in Newark --5 Yeah. 6 0 -- reviewing these reports? 7 Sure. One reason is because he's in Newark. 8 He's the lab director for the CLIA lab. He had God knows more than enough work to do in the CLIA lab. So pull lab people in R&D was something that I was not 11 fond of. That's one reason. 12 The other thing is: The R&D people could 13 move faster. If something needs to be troubleshooted, 14 they're there. They can pull up the computer or the 15 command, the shell and this and that. All of the 16 scripts were available to the R&D guys. We could just 17 go walk down to the R&D and literally talk to the QC 18 person saying, "Did the QC filler happen or not?" 19 So we knew the R&D landscape. (b)(6); (b)(7)(C) 20 was completely in the clinical lab. He didn't even know the majority of the people in R&D, so things would 22 have slowed down if we had added another layer on top 23 of it. 24 qualification to make What was (b)(6); (b)(7)(C) 25 decisions on these lab results? 0274 1 A Well, he's a -- he's a pretty outstanding 2 he spent a lot of his time on clinical chemistry and bioinformatics mapping the pathways in human 5 brains. I won't be able to describe his qualifications in detail because he did a lot of R&D work around genomics and path -- sorry, human pathway. He did 8 bioinformatics. 9 Then when he came to Theranos, he spent six 10 or seven years in clinical lab assay development. He really understood a lot of the nuances of assay 12 development. He brought the right background. He was already leading the team of people who were doing a ton 14 of data analysis for the CLIA lab. 15 So once you -- so for -- for assay 16 development, once you develop an assay, all of the raw results have to go to somebody who can do analysis on 18 the data to see how the assay is performing, how the 19 R&D is working. So it requires a lot of machine 20 learning, a lot of software, and -- and algorithm 21 skills. (b)(6); (b)(7)(C) was responsible for that. 22 They did all the data analysis. He had, I think, 10 or 23 12 people on his team who were churning data. 24 So as part of the assay systems R&D, he 25 really got deep into the assay development process. 0275 1 And I think he's as qualified as anybody in that part 2 of the business -- in that part of the -- the

laboratory. And then also once he got to the point by 4 5 this time that he also understood the CLIA lab SOPs pretty well and once he took the Arizona lab, you know, 7 he just -- he -- I felt I sent the right guy for the job. It is very rare and difficult, almost impossible, to find people who have the clinical chemistry understanding and also bring the data analysis and machine learning background. It's a very unique skill 12 set that he brought. 13 And my hope was: Once he has managed the 14 Arizona lab, got more experience, he would have ultimately been qualified to be a high complexity CLIA 15 lab director, and put him in a role where he can be 17 responsible for all of the labs. 18 You know, we actually were building on a 19 suite of applications that allowed us to apply artificial intelligence on the CLIA lab data in realtime. So if you saw a machine in Pennsylvania drift a little bit, before even the CLIA lab knew, our 23 AI would know. Right? Nobody has applied machine 24 learning and artificial intelligence to a clinical lab, 25 in my knowledge, and I don't think anybody will for a 0276 long time. We were doing that. And (b)(6); (b)(7)(C) 1 had just the perfect background for that. 3 So you mentioned that, you know, the right thing to do in this situation with the chloride result was just to remove it entirely from the report. Why not just, you know, remove the result, keep chloride on there, but say, "needs redraw"? 7 Well, usually, when you do R&D samples, you 8 don't put "needs redraw" as a practice. I don't know what -- what happened after this report, so obviously I don't want to guess what was communicated to Trott and what he knew. But in the R&D world, it's not odd to remove a test that you couldn't perform in some cases. 13 So there's nothing -- there's nothing unusual about not 15 including a test you just couldn't do in R&D. 16 Based on -- what is that based on? What is 17 your understanding based on? 18 Just talking to the R&D development people, 19 Daniel Young. You know, just listening to these guys. 20 O So --21 Because you're -- and also just general common sense that if you're trying to demonstrate to somebody that I can do 14 things -- like Chem 14 is 14 24 tests. And when you send the results and there are 13, 25 then it's not Chem 14 anymore and you don't call it a 0277 1 complete metabolic panel. 2 So some other things are kind of obvious also

that if you're expecting 14 and you report 13, then one

didn't get performed.

## 5 BY MR. KOLHATKAR: 6 Q When you're asking for the results to be accurate, were you aware whether or not (b)(6); (b)(7)(C) was 7 going to compare this test result with any other test 9 result? 10 A I don't know. Actually, it's not easy to do 11 that in -- in laboratories. You can't compare results 12 and say -- people make that mistake all the time, and 13 they will say, "My vitamin D at UCSF was 50 and at 14 Theranos, it was 40, so UCSF must be better." The labs 15 use different equipment, different reagent lots, 16 different a lot of things. 17 So like I said earlier, it's unlikely that he 18 can compare something and be able to reach a conclusion 19 if necessarily our PTs are right or wrong. Which is why my emphasis was: Make sure we know for sure that 21 we have done everything right, which means make sure 22 you run the QC properly. Don't just take a shortcut 23 because it's an R&D sample. 24 Q I guess my question was just were you aware 25 whether or not he was planning on comparing these 0278 1 results with any others? 2 A I don't know. It wouldn't surprise me. I mean, there were people who used to come to our locations and compare it to other lab, you know. And doctors told us that. I think it was printed in media also. So it didn't surprise me at all. It wouldn't 7 surprise me. I don't know. 8 You -- okay. Q 9 A Yeah. But it wouldn't surprise me. 10 BY MS. CHAN: 11 You said earlier that the fact that the lab 12 report had "technology demonstration" at the top wouldn't mean that it would have been run in an R&D 14 setting and not in the CLIA lab. 15 A It could have run in the CLIA lab also on 16 some machines. But the full purpose of the report was 17 demonstration, and in CLIA reports, you can rely on 18 them for medical decision-making. The -- you could run 19 some of the tests in CLIA lab equipment in the CLIA lab 20 facility, but we are still treating them in R&D. 21 For example, let's say I am the phlebotomist 22 who drew your lab test. Even if everything else happened in the CLIA lab perfectly, according to SOP, because I'm not certified to collect your sample, it 25 would be a tech demonstration. 0279 1 Okay. I'm just wondering, you know, (b)(7)(C) (b)(6); when he comes in to get his -- his test done --2 3 A Right. 4 -- why would it be obvious to him that just 5 because his lab report says, you know, "technology demonstration" at the top that it's being done at the

R&D lab and not the CLIA lab, and therefore, some of 8 the procedures or SOPs that would be in place at the 9 CLIA lab wouldn't apply to his reporting? 10 I don't think the issue here is: If 11 something says "technology demonstration"; therefore, 12 must have run in R&D. The point here is, like I said just a few minutes ago, you could have run the entire 14 thing in the CLIA lab, but you may have violated one small SOP, for example, the guy who collected your 16 sample, it's no longer a CLIA sample. 17 So the implication here is not necessarily 18 that if it is technology demonstration; therefore, it's 19 not a CLIA lab, it's an R&D. The point is: Do not rely on this for medical decision-making. Don't take 21 this to your doctor because doctors will see at the top 22 it's a tech demonstration. 23 Ask me the question again. Maybe I didn't 24 answer it correctly. 25 I think you said before that you -- that (b)(7)(C) 0280 1 (b)(7)(c) must have known or these -- these VIPs or, you 2 know, prospective investors, or investors must have known that this was being processed in the R&D lab and not the CLIA lab because the report said it was a technology demonstration. I'm just trying to 6 understand why do you think that's obvious --7 Yeah. Α 8 O -- to people? 9

MR. COOPERSMITH: Well, if you said that. I 10 mean, the record will speak for itself.

THE WITNESS: Yeah. I actually don't know if 12 those are my exact words, but I understand your concept. I think the point I was trying to make and the appointment I just made here is that if some -- some report says "technology demonstration," that means 16 if -- not all of it was processed in the CLIA lab.

Now, it's not obvious to them which part was processed in the CLIA lab and which was not. It doesn't have to be. The most important thing is: This 20 is not a report from the CLIA lab. This says "tech demonstration" at the top.

22 Now, that doesn't mean that somebody who engaged with (b)(6); (b)(7)(C) didn't explain that to him. I'm 23 not suggesting that, that this was the only way we 25 communicating it to him. I just don't know. I'm just 0281

1 responding to what was -- what is in front of us, which

is a report which says "tech demonstration." And the point of that is: This is for demonstration of

technology, not for CLIA lab purposes, and that's the

5 only difference.

11

13

15

17

18

19

21

6 Now, the CLIA -- the lab may have -- sorry, the sample may have run in the CLIA lab. Everything may have checked out except for maybe one minor thing,

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and that would prompt it to say tech demonstration, not
10 CLIA.
11
          BY MR. KOLHATKAR:
12
          Did you do ever do anything for any of these
13 technology demonstrations to explain to the -- to the
    people who were -- who were getting the demoes that --
15 that their -- that their blood was a tech demonstration
16 as opposed to a CLIA sample?
17
           Yeah. I mean, in most cases when we met with
18 people, like I said earlier, we were not demonstrating
   CLIA lab. So we would always start by saying we are --
19
20 "We will do a demo for you," right, or "We will show
   you a future XYZ," or something that we wanted to show
22 to them. It could be a new CTN, it could be a new
    process, new software.
          People, when they came and met with myself or
24
25 Elizabeth, they didn't come here to say, see how we
0282
1 were doing in the Walgreens locations. They could just
   go to a Walgreens location for that. When people came
   and engaged with me, I mean, I actually never -- don't
   recall any meeting in which I was going to say, "Oh,
5
   I'm going to do exactly what CLIA lab would do on you
   so you can see the process." It would just be better to
6
7
   send them to Walgreens. So -- I'm sorry.
8
          So -- so your general practice was to -- to
9
   call it a demonstration --
10
       A Yes.
11
       Q
          -- is that fair?
12
       A
           Yeah.
13
           But not call out as say, "By the way, this
14 isn't going to be processed in our CLIA lab," or "isn't
15
    going to be processed pursuant to CLIA SOP"?
16
       A Yeah. I mean, I never got an inclination
17 from anybody -- any investor who they would -- they
   would be able to -- they -- they would ask or care
18
19
    about that detail. If it is a tech demo, it's a tech
20
    demo. We are demonstrating technology.
21
          What is Madrone Partners? You can put this
22
    document aside.
23
       A
           Oh, sorry.
24
       O
           Yeah.
25
           Actually, I think it is some investment firm.
0283
1
   Actually, the name rings the bell, but I don't recall
2
   the details.
3
           Do you know who (b)(6); (b)(7)(C)
                                           is?
          Yeah. (b)(6); (b)(7)(C)
4
      Α
   (b)(6); (b)(7)(C)
5
   the investors in the company, but I don't remember
6
7
   many -- many details of it. I think -- I don't recall
8
   the details with him.
          Do you know who (b)(6); (b)(7)(C)
9
10
       A Yes, of course.
```

11	Q Who is $(b)(6);(b)(7)(C)$
12	A He's one of the investors in the company,
13	and, of course, he is, I think, (b)(6); (b)(7)(C)
14	(b)(6); (b)(7)(C)
15	Q Do you do you know how (b)(6); (b)(7)(C) invested
16	in Theranos?
17	A I don't remember the name of the firm, but
18	(b)(6); (b)(7)(C) was the person who was the liaison between
19	us and (b)(6); (b)(7)(C) is what I remember.
20	Q And I guess when you recall (b)(6); (b)(7)(C)
21	liaising with Theranos, did you have an understanding
22	that, I guess (b)(6); (b)(7)(C) capital would be what you'd
23	be liaising with? That he was the source of the
24	capital for
25	A I didn't know by name that this person,
028	
1	but I knew that (b)(6); (b)(7)(C) was managing (b)(6); (b)(7)(C)
2	Investments in Silicone Valley. It's what I heard from
3	him, actually, when I met with him.
4	Q Do you recall an instance where (b)(6); (b)(7)(C)
5	came in for a blood draw at a Walgreens store in
	Arizona?
6 7	
	A You know, I remember. It was obviously an
8 9	important occasion because, I mean, you know, a Walmart
	guy going to Walgreens was special. So I do remember it for that reason. But I don't remember the exact
10	
11	details of that.
12	Q I guess I think I know where you're going,
13	but can you just explain why it was special for that
14	reason.
15	A Because they compete with each other, and I'm
16	pretty sure wouldn't walk into a Walgreens
17	store if they didn't have to would be my guess.
18	Q Do you recall what the purpose of his visit
19	was when he was when he was going into that
20	Walgreens store in Arizona?
21	A If I recall, I think he wanted to see our
22	process. But again, I don't recall the exact details
23	of the visit because I don't think I was involved with
24	the details of it. But I remember, I think he had gone
25	to actually Arizona for that, not to Palo Alto, is my
028	
1	memory.
2	Q Do you do you recall if (b)(6); (b)(7)(C) or other
3	project managers consulted you about a process to to
4	make the Walgreens (b)(6); (b)(7)(C) was planning on visiting
5	look nicer before his visit?
6	A I don't recall, but it wouldn't surprise me.
7	I mean
8	Q I'll hand you a document that I'm marking as
9	Exhibit 243. For the record, Exhibit 243 is a document
10	Bates-stamped TS-1044293.
11	(SEC Exhibit No. 243 was
12	marked for identification.)

13 THE WITNESS: Okay. 14 BY MR. KOLHATKAR: 15 Do you recognize this document? 16 I do. 17 Q What is Exhibit 243? It's an e-mail from (b)(6); (b)(7)(C) 18 to myself, and CC'd to (b)(6); 19 20 21 (b)(6); (b)(7)(C) And then I 22 forwarded the e-mail to Ms. Holmes. 23 Why did you forward this to Ms. Holmes? 24 Probably just FYI for her to keep her in the 25 loop. 0286 1 Was that a common occurrence that you'd pass on information to her and vice versa? 3 Yes. And is it fair to say were there areas of the 5 company -- I mean, we talked a lot about your responsibilities earlier today. Was it your normal practice to keep her updated about what was going on in the -- in the areas that you managed? A Not always. There was too much stuff that I was doing, and if I even type a one-line introduction to the e-mails, I would never get my job done. So sometimes I would just forward and hope that she reads 13 it. I used to complain to her that she didn't read a 14 lot of my e-mails. But -- and sometimes I would put a 15 one-liner. 16 And -- but most of the times, I would send 17 something and I'd go to her office saying, "Did you read my e-mail?" 18 19 The chances are "No." 20 "Please pull it up so we can talk." 21 So if it was that important, then I would do 22 that. 23 O I mean, did you generally keep her updated 24 about VIP visits? 25 No. You know, this concept of VIP was -- I 0287 don't know where it came from. But the answer is no, I didn't. If it was somebody that she cared about, then chances are, yes, but if it is somebody she didn't care about, then I won't. 5 Well, where did the concept of VIP demos come Q 6 from? 7 A I think what happened was -- and this is my guess. I don't think I came up with this name because I don't like it, and I don't think Elizabeth either. 10 What was VIP about these demos or meetings was the fact 11 that I was in the room, or Elizabeth was in the room, 12 or both of us were in the room. And a lot of times when we collected the sample, if they went to the CLIA 14 lab, the CLIA lab would just put them in the stack and

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batch process them. And the product manager sometimes
   would pull their chains by saying, "This is VIP because
17
    Sunny was in the room, so you better process it right
18 away" or "Elizabeth was in the room."
19
          So that's kind of my understanding. Because
20 at least in the CLIA lab -- and I heard this word a
    lot, "This is a VIP sample," and I used to -- "What the
22 heck is a VIP sample?" And this is how I found out. So
23 I think it came about in that context.
24
       Q And, I guess, what was your concern with the
25 PMs sort of prioritizing these samples in the CLIA lab?
0288
1
      A Well, it was -- no, I didn't have a concern.
2
   I just didn't like the name because I don't think a lot
   of these demos we were doing actually were VIPs. And
   the PMs were not able to make the call. They just
5
   thought because I was in the meeting and I did the
6
   demo, so it must be important. And a lot of times
7
   people would come and meet with us, and I mean, they
8
   were important, but they were not very important.
9
         So -- so if the sample got delivered eight
10 hours later, that was just fine. But the -- I didn't
11
    follow -- follow up, you know, chase this thing, and
   these guys just got into the habit of saying, "Well, if
12
13 I don't deliver the results, Sunny is going to be
   breathing down my neck, so I better move it faster."
15
       Q What gave you the impression that Ms. Holmes
16 didn't like the -- the term "VIP"?
       A Because we never talked about it. I mean, if
17
18 it was something that was her word, then she would have
19
    used it in front of me also, but I don't recall her
20
    using it that much, if ever.
21
          BY MS. CHAN:
22
           Who did you consider important?
23
           You know, in a way if we are meeting with
    somebody, they're important. But we used to have a lot
    of people -- for example, Walgreens used to bring their
25
0289
   guests to us so -- on a tour of California so they --
1
   they can meet with us. And they would always take them
3
   to the Palo Alto store because it was nicer. I didn't
   consider them as important because I was being
5
   courteous to Walgreens by being in those demos.
6
         So important would be, you know, people we --
7
   who are strategic to us, people who are helping us grow
8
   the business. Some hospitals we would meet and we know
   that they would help us with samples in the future, for
10
   example, with our R&D, those people are important.
11
       Q And -- and prospective investors would be
12 important too?
13
       A I mean, they would be important, but
    honestly, I wouldn't put VIP to them. (b)(6); (b)(7)(C)
    would say VIP (b)(6); (b)(7)(C)
15
16
    (b)(6); (b)(7)(C)
                                         for the most
```

part, maybe not. But I would for his stature, but not 18 because he's an investor. 19 So investors were important, but at the same 20 time, they come and they see us and they don't like us, that's just fine. I mean, you know, I was not 22 necessarily saying for this investor, all hands on the 23 deck. Make sure everything was perfect. 24 Media would be -- would be VIP because they 25 would write us -- write about us. So if media --0290 somebody from media came, I would say, "Make sure 1 everything goes fine because this guy is going to write 3 about us." 4 BY MR. KOLHATKAR: Q The -- the message in 243 refers to the fact 5 6 that a TV, bamboo tree, lamp, and desk --7 A Yup. 8 O -- are placed -- were placed inside of 9 Walgreens for the visit. 10 Do you --11 A Yes. 12 Q -- see that? 13 A Yes. 14 And it says, "WAG's corporate team is not 15 aware this is currently in the store." 16 A Yes. I guess was it Theranos's normal practice to 17 18 have a TV, bamboo tree, lamp, and desk in Walgreens centers at this time? 20 Yes. So if you had gone to our Palo Alto 21 location, like I said, it was just beautiful. We had 22 all of this and more. And our design included all of 23 that stuff. And in many of these stores, we actually 24 had this TV where, you know, you would sit and get a 25 blood draw, and you would be looking at a TV with fish 0291 1 floating in water, kind of a calming effect. We used to also give people a bottle of water to calm them 3 down. It also made them bleed better. 4 So -- but we had these trees, and music, and 5 all this stuff. Unfortunately, half of the locations in Arizona, the rooms or the spaces that Walgreens gave us were pretty terrible. As you can see here, we 7 8 couldn't even hang a TV because somebody would steal 9 it. 10 So this is what he was saying, "due to loss prevention considerations." But the Walgreens guy would say, "Oh, no, no. A TV? Somebody is going to steal 13 it." So they won't let us. But our deal with Walgreens 14 in Arizona was: A large number of these store would be 15 what we called gold stores, which had enough space, our 16 TV, and we used to pay for this, all of this stuff. 17 So our plan was: Every store should look 18 nice because our customers are only there for a minute

or two. Let's treat them nice. And in some stores, that was not the case. This seems like one of those, 21 you know, we called them bad stores. And what -- we wanted (b)(6); (b)(7)(C) 22 to see what 23 our experience really looks like as we grow in -- in 24 many of the other stores. I mean, I wish I could have 25 directed him to one of the stores which looked like the 0292 1 locations we actually were building. But this was not 2 the case here. 3 Q I guess were you concerned that you were creating an experience for (b)(6); (b)(7)(C) 4 that differed, you know, from what he'd actually experience if his last name weren't Walton? 7 I mean, people treat the VIP customers better anyway. So I don't think he was being misled having --9 through the impression. Like I said, if he had gone to 10 the other stores where we actually had all this set up, 11 then one could argue they would be misled thinking all stores are like that. But that was not the case. We 13 were in the early states. We were -- we ideally wanted all the stores to be beautiful. And we actually offered to pay for them also. But again, Walgreens' 16 considerations were a big roadblock in some of these 17 stores. 18 But when we got an opportunity to put a TV, I 19 mean, we would hang it there. And my guess is -- I 20 don't know if they removed or not. If we could make 21 something nicer and we paid for it, usually Walgreens 22 didn't complain after it was done. 23 For example, in the Palo Altos store, we paid 24 for it. We fixed the bathroom. We put nice tiles. 25 Walgreens didn't complain. I mean, they were fine with 0293 1 us spending money and making the stores nicer. 2 You can put Exhibit 243 to the side. 3 So I'd like to change gears a little bit since we -- we started talking a little bit about the 5 Walgreens relationship. I guess I just want to take us back in time from the -- sort of the gold store 7 situation that we were talking about in 2014 a minute 8 ago to --9 Α Yup. 10 Q -- to when Theranos first started partnering 11 with Walgreens. 12 A Sure. 13 When was that and what do you recall about 14 those initial conversations? 15 I think we first met with them in March of 16 2010. We had a phone conversation with them initially. There was a person there called (b)(6); (b)(7)(C) 17 18 And I don't know if he phoned us 19 or we phoned him. I'm not sure how that came about. 20 But we had a phone conversation, and he invited us to

```
21
   come to Chicago soon after that.
22
          And so Elizabeth and myself, we went to
23 Chicago, and we met -- he had organized a meeting there
    and we met there. It was March of 2010, sorry.
25
          And what was -- what was the -- I guess the
0294
1
   original business model for partnering with Walgreens?
2
      A Well, we were going to explore. Initially
3
   when we went there, you know, we said, "Look, we have
   this technology and the capability and the vision of,
   you know, doing micro volume, small volume. We think
   we can put, you know, some tests and some devices in
7
   your stores."
8
         Ultimately, what became Phase 2 is what we
9 were leading with initially. We thought that would be
10 Phase 1, which is the on site, putting a device in
11
   Walgreens.
12
       Q So -- so it's fair to say back in the, again,
13 really early time frame, the -- the business plan for
14 Walgreens was to have a distributed TSPU in the store?
15
       A Yes.
16
          Was there any discussion at that time about
17 having a -- sort of a -- a central CLIA lab to
18 supplement the device in the store or --
19
          Yeah. I mean, we wanted to be in the CLIA
20 lab business because over time, we thought we're going
   to learn a lot, I mean, how the CLIA lab -- labs work.
   More importantly, our business model -- actually, I
23 take that back. The CLIA lab was always part of the
   plan. The reason is: The way we were thinking about
25 distributing the TSPUs back then required a CLIA lab,
0295
   required a CLIA lab -- do you want to stop me or -- we
1
2
   have five minutes.
3
      Q You can finish your answer.
4
      A Okay.
5
         -- required a CLIA lab because a CLIA lab was
   going to provide the oversight. Remember I talked
7
   about the protocols, talking to the Cloud and protocols
   coming to the device? It was going to be all part of
   the CLIA lab. So the CLIA lab was required even for
10 that model.
11
          MR. KOLHATKAR: Why don't we go off the
12 record at 3:56 to change tapes.
13
          THE VIDEOGRAPHER: Off the record.
14
          (A brief recess was taken.)
15
          THE VIDEOGRAPHER: Rolling.
16
          MR. KOLHATKAR: We're back on the record at
17 4:02 p.m.
18
          BY MR. KOLHATKAR:
19
       Q Mr. Balwani, just to confirm, we didn't have
20
   any substantive discussions during the break; is that
21
    correct?
22
       A That's correct.
```

23 Before we took a break, we were talking about 24 the -- the Walgreens relationship. And I want to hand 25 you a document. 0296 1 So I'm handing you what's previously been 2 marked as Exhibit 206. 3 Α Thanks. 4 And you may not recognize the cover e-mail, 5 but do you recognize the presentation that begins at 6 WAG-TH-6786? 7 A Yeah. It looks like one of Theranos's 8 presentations. 9 Q Do you recall making a presentation to 10 Walgreens management? 11 A I don't recall if -- this exact presentation, but we made a lot of presentations to Walgreens, so 12 this could be one of them. 13 And does this look like a presentation 14 15 Theranos put together? 16 Yeah, it looks like it. 17 Do you know -- I mean, who drafted 18 presentations like these? 19 So when I came on board, there were already 20 presentations in place from before I joined the company 21 with data from pharmaceutical trials and a few other 22 things the company had done in the past. And then when I joined, I think I took over making it nicer because 24 before that, the presentation was not very good, and we 25 didn't have any PowerPoint specialists in the company, 0297 1 so unfortunately I became it initially. 2 But then I put the presentation in a common folder where the chemist would come in an enter the chemistry data, and Elizabeth would come in and add, you know, whatever data she had, and I would add more 5 6 software data. So it became a collaborative kind of 7 effort. What was the name of the -- I guess the 8 9 folder or the shared drive that it was maintained in? 10 A I don't remember what it was in 2010, but 11 later on, I think 2013, it became project management 12 commercial, something like that. It was kind of a 13 vague name. Under -- under the project management? 14 O 15 Yeah. I think -- I think -- I mean, I could 16 be wrong about the directory name, but I think there 17 was a folder created for presentations. 18 O And I guess that leads to sort of an 19 unrelated question. How did you maintain your files 20 when you were at Theranos? Was there a file for saving

21

22

documents that you used?

Yeah. We had a -- we encouraged everybody to

store everything on the network. So everyone's default

24 home folder was on the network. So anytime you're

25 saving a document on your computer, you -- you think 0298

1 you're saving it locally in your home folder, but it's

2 on the network. So that was the same for me, same for3 everybody.

I also had access to my local drives. Most

5 people didn't have access to local drives because we --

back then, we couldn't back them up because the

software didn't exist. Over time, we made it better.

But still because we wanted people to store everything

on the network because it's easy to back up the network

10 drive, I would say pretty much everything was on the network. Even my stuff over time was on the network.

- 12 Q And you -- you could save it on the network 13 and configure it in a way so that only you or --
- 14 A Yeah.

4

- 15 Q -- so other designated people couldn't --
- 16 A Yeah.
- 17 O --- couldn't access it; is that fair?
- 18 A Yes. We had pretty tight controls, and over
- 19 time, they got even better. You know, I brought the IT
- 20 background, so I put the infrastructure in place so
- 21 that people who had access would have access, People
- 22 who don't have access, don't have access.
- Q The -- was your shared network -- was the --

24 was the sort of drive that you kept documents on the -- 25 on the network drive called the 300 folder?

- 1 A Yeah. There was one folder I had created
- 2 called 300, and I pretty much started -- the initial
- 3 intent of that was: All of the planning, and thinking,4 and news article, everything that was coming into my
- 5 head, I was dumping in the folder. And I believe
- 6 Elizabeth had access to 300. And -- and then -- but
- 7 I'd started using it as if it was my home folder,
- 8 pretty much putting everything on 300.
- 9 Q And so the -- the 300 would be the sort of
- 10 head folder, and then you had subfolders?
- 11 A Yes. Yeah.
- 12 Q And other than Ms. Holmes, did anyone else
- 13 have access to the 300 folder?
- 14 A IT guys, but not anybody else.
- 15 O Did you -- are you a big handwritten note
- 16 taker? Did you maintain a lot of handwritten notes
- 17 while you were at Theranos?
- 18 A Not many. I'm actually not a big -- I do a
- 19 lot of notes on the whiteboard, and then -- but then I
- 20 image them and I'll -- even when I'm thinking by
- 21 myself, I think on whiteboards, and I had literally a
- 22 glass wall the length of this conference room in my
- 23 office. And I would take notes, and then I'll sit on
- 24 the computer and transfer -- type them in.
- Q If you did happen to take notes on a pad, how 0300

would you -- how did you can keep notes when you were at Theranos, if you did?

A If I did, they would just be in my file somewhere, but I would say that didn't happen that often. I was not a good note taker.

Q Sorry for the direction that I went. Let's turn --

A No problem.

3 4

5

6 7

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9

10

6

Q -- turn back to the -- to the presentations.

So in other words, at some point in time

11 PowerPoints like these became a collaborative process.

Do you know back in the March 2010 period sort of who

13 would have the final authority to -- to finalize a

14 presentation like this?

15 A I don't think there was -- even until the day 16 I left there was anybody who had final authority because people just would add content. And the purpose 17

18 of these was: It doesn't really matter. It doesn't

19 have to be final, because we would go to the meeting

20 and just kind of go through it up and down, pick up the

21 slide that we want to talk to and jump to that slide.

22 And then if there's something we didn't like, we'd just

23 drag it to the end.

24 So -- and then we would store that on the 25 folder and that became the latest version. And then 0301

1 somebody else would take it and kind of trade that.

2 Q I guess when you're presenting to, you know, executives at -- at Walgreens, who -- who would make the decision about which slides to choose from that 5 larger deck?

I don't think we did that. That's the point I'm making, is that if we had a -- I mean, our deck over time became 500 slides. So we didn't have to pick 9 and choose slides. What we did was, even when we met 10 with investors or a board, we would just take the entire deck with us, I mean, virtually speaking. And 11 12 we would just present it.

13 In some cases, if I was meeting with a 14 specific audience which obviously, they don't need to 15 see other things, and let's say I'm meeting with a 16 physician, they don't need to see hospital or insurance 17 slides, I would put them at the bottom, or if the slide 18 deck became too big, I would just delete them, and then 19 I'll store this. But then next time if I want to work,

20 I'll still go back to the mother source, the big slide 21 deck.

22 And so there was no one person making a final decision. It was: Here's the latest version. Take it 24 and show whatever slides you want to.

25 I guess who -- who -- who would make the 0302

1 final decision about what slides to show Walgreens in

2 this time period?

- 3 Specifically, this one, if -- when we presented this, then it would be me and Elizabeth 5 together. Q If you'd take a look at the page ending in 6 6790. 7 Α Yes. 8 9 There's -- there's a few pictures here under 10 the slide "Overview of Theranos Systems." 11 A Yes. 12 O Do you know who authored this slide? 13 Yeah. I think this existed before I joined 14 the company. I may have made modifications to this. I 15 may have added the database infrastructure. The software pieces, I may have added, I don't remember. 17 But -- and obviously the iPhone icon, chances are, I 18 added that. 19 O I mean, is this sort of an accurate overview 20 of the systems Theranos was planning on deploying at 21 Walgreens in 2010, a system of devices, cartridges, and 22 mobile applications supported by database 23 infrastructure, algorithms, and applications? 24 There would be more components. This was not 25 a fully inclusive deck. It was -- like I said, most of 0303 the times, we're using the slide deck as a conversation 1 starter. So there may be things that are here that were not applicable to Walgreens. 4 For example, the pattern recognition
- were not applicable to Walgreens.

  For example, the pattern recognition
  algorithms probably didn't have much use at Walgreens
  for the foreseeable future, but we had them. And then
  in many cases, there would be things that we would use
  for Walgreens that are not here. As we learned, we
- 10 Q In a slideshow like this, did you ever 11 include a picture of a commercially available analyzer? 12 A Well, we've made a lot of presentations, so
- it really depends. But most of the time, no, we didn't, or at least I didn't.
- 15 Q Why not?

would add them.

- 16 A You're not talking about modified commercial analyzers?
- 18 Q Just, like, an off -- off the shelf, you --
- 19 A Yeah.

- 20 Q -- you used unmodified.
- A They were not interested. I mean, we didn't go there and say, "Oh, by the way, we have an Abbot machine in our lab." Everybody would be like, "So
- 24 what?"
- So nobody ever added that for that purpose. 0304
- 1 It was not interesting. Just like we didn't have
- 2 pictures of pipettes. We did have pipettes in our lab
- 3 and a lot of other equipment in the lab. Not
- 4 interesting.

- At this time Theranos hadn't invented its 6 nanotainer, CTN; is that right?
- A Yes, that's correct. We did have a small 7 8 capillary tube that I mentioned earlier that we used to 9 wick the blood off the finger, but it was not a 10 nanotainer.
- 11 If you could turn to the page ending in 6792, 12 there's a slide on validation of Theranos systems.
  - Uh-huh. Yes.

5

13

14

4 5

- Q Do you recall who wrote this slide?
- 15 These are not my words because I did not have 16 this background, so chances are, I didn't do it. But I 17 don't know who actually did. I wouldn't be able to 18 tell.
- 19 In 2010, I guess, do you know how Theranos Q 20 systems had been validated under FDA or ICH guidelines?
- 21 My understanding -- again, this is -- I'm --22 I'm not a chemist. A lot of these things that are here are about chemistry. So my understanding was that our chemistry assays that we were developing for 25 pharmaceutical companies followed a certain protocol, 0305
- 1 which was dictated by these 21 CFR compliance and ICH guidelines. It says we follow the guidelines. So that 3 was my understanding.
  - But if you ask me to explain this stuff, I wouldn't be able to. I don't know what they are.
    - If you could turn to the page ending in 6814. BY MS. CHAN:
- 8 Q Would Elizabeth Holmes have known what --9 what that was talking about, the validation slides?
- 10 A Back then, she would have known more than I 11 did because she was with the company longer at that point. This is still me in the company -- six months in 13 the company. So at that time she would know more. I don't know if she still remembers all of this stuff or 15 not.
- 16 And when you were sending out, you know, 17 presentation material to, you know, third parties, you 18 know, potential business partners like Walgreens, for 19 instance, in this -- in this instance, would you --20 would you raise questions if you didn't understand what 21 was on a slide that was being sent to them?
- 22 Not me. I mean, I would -- most of the times what we were sharing, at least at this time going back to 2010, was: "We are a small company. This is what 25 we have done in the past." It was more like that. Not 0306
- 1 necessarily, "This is what we've done and this is what
- we are going to do with Walgreens when we launch with
- you." It was more introducing our company, and our
- capabilities, our experiences, was what -- what we were
- 5 trying to get across. And in some cases, our vision,
- 6 sorry.

```
7
         But, no, I wouldn't -- if I didn't understand
   something, I would not pull the chain saying, "I don't
   know what this is. Somebody explain this to me." I
10 would -- like I said, this was a very complicated
11 structure. I know a lot more now than I did in 2012,
12 which is why I'm thinking I can address a lot more.
13 But back then, I knew even less. And so I would not
14 pull the chain just because I didn't understand.
15
          Why wouldn't you ask questions?
16
           Because I knew this is a very complicated
17 business. Just because I don't understand something
   doesn't mean it's not right or this was not done. You
   know, there are other people in the company, the team
20 leads, the chemists, the head chemist, the -- the R&D
   guys who had a lot more knowledge than I do -- I did,
22 so I assume they must have looked at it.
23
          BY MR. KOLHATKAR:
24
           So turning to the page ending in 6814. It's
25 a slide called "Launch of Theranos Systems at
0307
   Walgreens."
1
2
         Do you see that?
3
4
          It says, "Theranos would like to submit a
   partnership with Walgreens by end of April 2010 to
   launch the general chemistry, influenza, and fertility
7
   tests in Q4 2010."
8
         Were you -- was that your understanding of
9
   the company's goal at the time?
10
       A Actually, give me one second so I can read
11
   this, if you don't mind.
12
       O Of course.
13
          (The witness examined the document.)
14
       A Yeah. That was one of the ideas that we had
   discussed with Walgreens.
15
16
       Q I guess, was Theranos's TSPU capable of
17 performing the general chemistry, influenza, and
18 fertility tests in --
19
       A The -- yeah. The influenza and fertility
20 tests, we actually had some assays in the validation
    stages. So H1N1 was an influenza test. I had talked
   about H1N1 earlier. So that, we were capable of. I
   don't know what general chemistry tests we had in mind,
24 so I don't know the answer to that.
25
          Okay. So in other words, Theranos didn't
0308
1
   have all of its general chemistry tests available on
   its TSPU in --
3
      A Yeah. And I don't think --
4
          -- 2010?
5
          And I don't think we are saying that here,
   either, that we are launching all general chemistry.
7
   General chemistry has hundreds if not thousands of
8
   tests.
```

```
I guess, the -- you know, earlier we
10 talked -- we talked about the fact that the 3.0 and the
   3.5 could generally only run immunoassay of ELISA
12 tests.
13
       A
           Yes. Correct.
14
       O
           And are those a subtest of general chemistry
15 tests?
16
       A No. General chemistry actually -- again, I'm
17 out of my league here, but my understanding of general
18 chemistry is: There are some tests that you can --
19 there are some overlap between general chemistry and --
   and immunoassays that you can do on general chemistry
   machines like Advia 1800s. So there is some overlap,
   so I don't know what I had in mind here -- what we had
23 in mind here.
24
          MR. MCKAY: Slow down. Slow down just a
25 little bit.
0309
1
         THE WITNESS: Oh, sorry.
2
         BY MR. KOLHATKAR:
3
      Q So I -- and I guess I hear your point that
   you're not saying that you're going to run all general
   chemistry tests at this time, but just as a factual
   matter, Theranos couldn't run all general chemistry
   tests on -- on its TSPU in April 2010?
8
      A I don't think we could run all general
   chemistry tests. I don't know if we could run some. I
10 don't know the answer to that. But I do know that --
11 the other thing also is: I don't know if what we meant
12 then was: Launch all general chemistry, influenza, and
13 fertility tests or -- did we really mean general
14 chemistry as in the category general chemistry.
15
          So I don't know. I don't want to guess on
16 that one. But we were talking about panels at that
17
    point, and my understanding is: Influenza and
18 fertility panels, we could have done.
19
          BY MS. CHAN:
20
       Q If you go to 6801, you'll see there that
21 there's a list of general chemistry tests on that
22
   slide.
23
       Α
           Yes.
24
       O
           Could the TSPU conduct testing on all of
25 these tests?
0310
1
      A Not at that time. And actually, one more
   point: Here, the general chemistry actually is being
   used as in routine chemistry. Because if you look at
   the first column, it says "CBC," complete blood count.
   That's not a GC test, that's not a general chemistry
6
   test. That's a hematology test.
         So -- so -- and thyroid panel is all
   immunoassays. So all of the assays here, TSH, T3,
9
   T4 --
10
          THE REPORTER: Can you slow down.
```

11 THE WITNESS: Yes. 12 All the thyroid panel listed here are 13 immunoassays, so -- which is what I was commenting earlier that I don't know if we meant general chemistry in the other slide as in the category general chemistry or general chemistry as in, you know, routine 16 17 chemistry. 18 So here, now, this slide answers that 19 question that we were talking about what are the 20 routine chemistry? "General chemistry" is not the 21 right technical name to use here. 22 Q Did the TSPU do testing for the complete 23 blood count? 24 A Not at that time. 25 What about the complete metabolic panel? 0311 1 A Not at that time. We were obviously working on the revisions to 3.0, and we thought at that point that we would be able to -- we would put -- if we had 3 pursued this path, we would have put -- I think I mentioned earlier that we were going to modify 3.0 and add general chemistry to 3.5, and we were working on the R&D phases at that time, even in March and April of 2013. We didn't pursue that because we didn't pursue this path with Walgreens. 10 O Okay. Doesn't the slide make it look like Theranos was able to conduct that testing already at 11 12 the time this was presented in March 2010? 13 A No. I don't read it this way. Like I said, 14 a lot of the -- the slides here, if you read them -- I mean, for example, the slide that I saw -- go to Page 16 Number 6812. That has individualized health system 17 application. A picture of an iPhone, and a Blackberry, and automated health support, we didn't have any of 18 that stuff. And Walgreens understood that because if 19 20 we had it, we would have shown it to them. The 21 software is easy to demonstration. 22 And when we talked about this, we said, "This is our vision that when a patient comes in, we will be able to do the test. You can even" -- and, for 25 example, the quote here, "Don't forget workout clothes 0312 1 when we travel to Boston." And we couldn't do any of 2 that stuff. 3 The -- the purpose of a lot of these slides was to show our vision of what we want to see happen. And none of these was there and didn't happen even 5 until I left. So again, this was a slide we used to 6 7 start a conversation. 8 So it's the same thing there, is that if we 9 could have done all of those tests, then we wouldn't be saying, "Let's launch with those two panels," it's why 10

wouldn't we launch with everything. But it was a conversation starter that we have learned that this is

```
13 the -- these are the panels that are most commonly
   ordered. And we were correct about that. That this is
15 what we should focus on as a company and as a
16 partnership it's offering.
17
          BY MR. KOLHATKAR:
18
       O Did Theranos enter into a contract with
19
   Walgreens in 2010?
20
       A Yes, we did.
          Just -- I mean, I don't want to go through
21
```

- 22 kind of each of the contract terms. But what was your
- general understanding of -- of what the agreement was
- between the companies at that time?
- 25 That we would work together in deploying 0313
- 1 Theranos services at Walgreens locations. That we
- would put a TSPU at Walgreens locations, perform some
- tests there that we could from finger stick, and we
- would build all the software on the back end that we
- have to build in order to make consumer-facing portal 5
- apps available.
- 7 We had to build out the CLIA lab. Obviously, 8
  - the CLIA lab didn't exist at that time because we
- couldn't launch this without the CLIA lab. CLIA lab
- was a prerequisite because all of the assays we were
- going to run were -- would have been LDTs, or
- 12 lab-developed tests, which are -- which have to be
- 13 validated by a CLIA lab.
- 14 So all of that work didn't exist. Walgreens
- 15 knew we didn't have a CLIA lab because a CLIA lab
- 16 license was publicly available, and we didn't have it.
- 17 So the contract was signed so that now we can start in
- 18 that direction. And we pivoted and we started focusing
- 19 all of our R&D efforts from that point onward to
- 20 prepare for that.
- 21 Now, we spent a lot of time in the contract
- 22 negotiating, and one of the things that we -- I spent a
  - lot of time on was not to make any commitments around
- 24 timeline on when we were going to launch because we had
- 25 to build a ton of infrastructure. And Walgreens too,
- 0314
- 1 but we had to do a lot of heavy lifting. And I made
- sure that we did not -- don't bind ourselves to any
- launch date, and there's none in the contract.
- 4 And as part of that -- entering into that 5 contract, did Walgreens made any payments to Theranos?
- 6 A I don't think they made the payment at that
- time. I think they made one payment over time once we
- met a certain milestone. I forgot what it was. But it
- 9 was -- I think they made the first payment end of 2012.
- 10 And so you mentioned kind of that initial
- 11 contract, you didn't want to be bounded timewise --12 Actually, sorry, I just remembered, to
- correct myself, they for sure didn't make a commitment.
- 14 It was only when we modified the contract in 2012,

15 after that, we had asked for the first payment.

16

7

17

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23

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Q And so you -- you sort of read my mind. What

17 would -- how did the contract get amended in 2012?

18 Yeah. So as I mentioned earlier, our initial 19 thoughts were -- and keep in mind, this is 2010, April.

20 We are still about 50 or 60 people in the company.

21 Walgreens had come and visited us. They had seen our

22 entire company. We had walked them through our entire

23 building, including the shipping and handling dock.

So, you know, they literally saw everything.

25 And after that, we started hashing out the 0315

1 details of how things will work out. Obviously, we had

to open the CLIA lab, validate the assays as LDTs, put

the devices in the Walgreens stores. And then we

engaged counsel to make sure everything we are doing

5 perfectly complies with regulations. 6

And we had advice from our counsel that what our plan of action was complies. Walgreens had hired consultants who told them it does, but it's a risky proposition. It may be that some components of this, 10 the FDA may not like. And so we started exchanging and started having a dialogue with Walgreens. In the

12 meantime, obviously, our entire company was focused on

13 working in this direction that we had chosen. 14

And around, I think, 2011ish is when we 15 realized that, you know, Walgreens didn't want to bear 16 that risk because they were a big company. They were also in the media. They were in hot water because they 18 had done something with another company in 2010 or 2011 where they started distributing something that was not 20 FDA cleared. Not -- nothing related to us. It was some other third company. And the FDA sent them a warning letter, either to them or to the company whose product Walgreens was distributing.

24 So Walgreens was gun shy at that time, and 25 they said, "We don't want to be in the media. We don't 0316

want to take any risks." So things kind of slowed down, 1 but we pursued this path of TSPUs capabilities.

And in -- I think in 2012, I don't remember which month, we started exploring the possibility what if we are running everything in the one lab and there's 6 only one CLIA lab and we just ship samples from the 7 field.

8 And we started prototyping nanotainers and

CTNs, and put a ton of effort in there. Pretty much, I 10 think -- I would say the majority of our company or a

large chunk of our company was working on CTN because

12 it was a very monumental undertaking. There are

companies out there who do nothing but make these

Vacutainers or vessels for transferring blood. This is

15 their entire business, multibillion-dollar companies.

16 And for us, obviously, this was a big project. It had

17 to be done right. 18 So we started focusing on CTNs, and once we 19 got to the point where we thought it was a good 20 solution, a good path forward, we approached Walgreens 21 again, saying, "What do you think about this?" Or maybe 22 it was Walgreens who came up with the idea and we did 23 the R&D around it. And then we met together and we 24 said, "This seems like a good path." Obviously, it 25 shifted a lot of what we were doing from focusing on 0317 TSPUs and all of our R&D who were there -- again, we 1 are still a small company. This is 2012, so maybe we are at, I don't know, a hundred people or so. And now we started running after the CTN, the centralized lab 5 model, and that's how it came about. So --6 Q 7 Sorry for the long answer. Α Q No, no, it saves me from asking more obvious 8 9 questions. 10 But the -- how was the contract with 11 Walgreens amended in -- in 2012? 12 MR. COOPERSMITH: And if you're asking 13 specific contract language, I mean, obviously, you have 14 the contract. 15 MR. KOLHATKAR: No, no. Sure. I'm just 16 trying to get directionally in terms of the business 17 strategy of the company and -- and its relationship 18 with Walgreens. 19 BY MR. KOLHATKAR: 20 Why did Theranos amend the contract in 2012? 21 A Well, we -- when we had this discussion, 22 Walgreens loved the idea. 23 The idea -- this idea of shipping? O 24 A Shipping samples. 25 Q Yeah. 0318 The reason is: It required even a lesser 1 investment by Walgreens because they didn't have to build out space for our TSPUs, and power, and HVAC, and all that stuff. And more importantly, this allowed us to expand faster because we were no longer bound by necessarily our production capacity, our TSPUs, and cartridges, and training people on how to use the 7 machines, and so on and so forth. 9 So they -- they loved that idea. And, I 10 mean, obviously, their goal was -- from this whole 11 project was: Get more people in the store so they can 12 buy more stuff. More volume, more dollars per -- per 13 transaction. 14 And this was also the time where we started 15 talking to Walgreens about the threat from Amazon and other tech companies to their core business. They knew 17 that retail business is going to change significantly and -- as obviously, now, we are seeing it. But we

19 started discussing with them.

20 And they knew that if people started getting

21 pharmacies at home delivered by Amazon, and I thought

- 22 it was an inevitable thing. It's going to happen.
- 23 It's just a matter of time. But they were tuned to
- 24 that. And -- and people start -- stop coming to the
- 25 store to buy, you know, liquor, and tobacco, and other 0319
- 1 things, then how would they attract people? If they
- 2 had a service in the store that kind of forces you to
- 3 be in the store, like a finger stick, you cannot do it
- 4 remotely, at least for the foreseeable future, that
- 5 this would be a really great business for them because
- 6 they could continue to bring patients.

And the CTN, the shipping sample, basically means we can grow faster. And that was their main motivation. So this is how it came about.

10 Q And in your mind, I guess, what did -- what 11 did the 2012 amendment accomplish to -- to achieve 12 those business ends?

13 A From what I remember -- obviously, I would

love to see the language. But what I remember was that we modified it so that we said we are shifting to a

16 centralized lab model as, quote/unquote, Phase 1. And

17 I called it Normandy, as I earlier said. And Phase 2,

18 which was going to be put the device on site, I thought

19 D-Day was a good name. But boring minds took over and

20 called it Phase 1 and Phase 2.

And so the contract was: Let's go full force

22 Phase 1, central lab model, ship samples to the

23 centralized lab. And -- and I'm sure there were a few other things -- details that we may have changed there.

25 Q And did -- did the 2012 amendment, in your 0320

1 mind, change any commitments in terms of -- you

2 mentioned timeline being something that was important

3 to you in the original contract.

4 A Yeah. I don't recall that we still bound

ourselves to any specific timeline, but I may be wrong.

But I'm pretty sure if there were one, Walgreens would

7 have been calling me every day. So my guess is: We 8 didn't commit to a timeline.

The other thing that's important also is: We

also in either contracts, a second one, didn't commit
 to any certain person to draw finger sticks in the

12 contract either. So we didn't commit to those two

13 significant things. Go ahead.

9

14

15

Q Why was that important to you?

A Well, we wanted to have control over our

16 business. You know, if a doctor said to us, "I'm going

17 to send you my patients. I love everything else about

18 you. I love the fact that you're cheap, you're

19 transparent, your service is great, you're convenient,

20 you're open weekends, you're open late nights. My

patients love coming to you. I love that bamboo tree 22 and the TV screen."

23 But finger stick is new and healthcare 24 changes very slowly, sometimes a decade, you know, for 25 them to just change simple things. We wanted to make 0321

1 sure that we don't lose their business. If a doctor

- loves everything else about us, we don't want to, and I
- explained, this example that I just gave you is an
- example that I used with a lot of people, a lot of
- investors, and certainly with Walgreens and they all
- understood that. Yeah, what they care about is more
- people coming into Walgreens. That was the most
- 8 important thing.
- 9 And, I guess, at what point in time did --10 did Theranos decide that it was sort of ready to roll out that -- that offering of the -- the store and -and pursue that launch that we talked about, that soft 13 launch, followed by the -- the opening of additional
- 14 stores?
- 15 A It wasn't necessarily one moment when we said 16 that today is the day we are ready for launch. It's an
- 17 incremental process. You know, a -- what we were doing
- 18 was a fairly, like I said, complicated Rubik's Cube
- 19 kind of scenario where you have how many assays on the
- 20 CLIA lab, how many are validated, how many are finger stick, how many are from serum, how many are from
- 22 plasma, how many venipunctures. Are people trained in
- 23 the field? Are the stores built out? How many people
- 24 you have in CLIA lab. The ability to pick up samples.
- 25 So there were a ton of moving pieces. Even 0322
- 1 if there was a deadline saying, "Okay. Now we are
- 2 ready for five stores," there was no way to be able to
- measure that we are ready for five stores. You know,
- you could only say, "I think we are ready to process a
- hundred samples a day" or "50 samples a day. Let's 5 start." 6

7 And then as we learn, we will add more 8 capabilities. We will obviously recruit. One of the things we wanted to do was get out so we could tell 10 people what we were doing so that could help with 11 recruiting, which it did.

So there was no one big bang moment. It was 13 more, "Okay. We need to launch, so we have to get 14 out." And then we learn in the trade and make products, 15 make our service better. Not necessarily any specific 16 product, but service.

17 Q I'll hand you what's previously been marked 18 as Exhibit 63.

Do you recognize Exhibit 63?

20 A I do.

12

- 21 O What is it?
- 22 This is a contract amendment that we had

- signed on December 31st, 2013, with Walgreens, ourmaster purchase agreement.
- 25 Q And if you look on the page ending in 102 or 0323
- 1 Page 4 of the amendment --
- 2 A Yes.
- 3 Q -- there's a section entitled "Innovation
- 4 Fee."
- 5 A Yes.
- 6 Q The third sentence in says, "To that end,
- 7 subject to Section 7, the parties have agreed that
- 8 Walgreens shall accelerate payment of the innovation
- 9 fee so that 75M of the prepurchase would become
- 10 immediately due."
- 11 A Yes.
- 12 Q Why did Theranos pursue this contract
- 13 provision?
- 14 A Why did we pursue the acceleration of the
- 15 innovation fee?
- 16 Q Correct.
- 17 A There were a lot of things that we were doing
- 18 for Walgreens that we -- we thought we were delivering
- 19 on and -- for example, exclusivity. And Walgreens had
- 20 called us in December. They thought things were moving
- 21 slow and their -- they would have lost the exclusivity.
- 22 I think the original contract anticipated 12 months
- 23 national exclusivity. I'm not sure. It's in the
- 24 clause. And we had already launched in September and
- 25 November in Arizona.
- 0324
- 1 So they thought the clock on exclusivity was
- 2 ticking or -- and they would lose it in 12 months or
- 3 so. And they didn't want us to go to CVS. They
- 4 absolutely wanted to make sure this service and all of
- 5 the features that we were building, software and all
- 6 the other stuff, stays with Walgreens only.
- 7 And they didn't want -- and they knew that at
- 8 some point when the exclusivity expires -- that was the
- 9 whole intent that we will work -- we are free to work
- 10 with anybody else. So they wanted to tie us to
- 11 exclusivity more, and we said, "In order to do that,
- 12 you have to make a deeper commitment," which is where
- 13 this came from.
- 14 Q And what was your understanding of -- in 2013
- 15 of -- of how Theranos would earn the innovation fee
- 16 payment?
- 17 A Well, there were -- this -- there's some
- 18 language in the contract I obviously don't remember.
- 19 But this was meant as a nonrefundable payment to us,
- 20 the 75 -- a hundred -- they already -- had already paid
- 21 \$25 million before, which is clearly marked as
- 22 nonrefundable in the contract. And then this \$75
- 23 million in the contract, if you read the language, was
- 24 also nonrefundable as an innovation fee payment.

25 So kind of that was my understanding at that 0325 1 point that this is -- this is what it is. 2 Q So what you're saying is: At the end of 2013 3 when this was signed, you understood that the -- the innovation fee was sort of entirely Theranos --5 entirely Theranos's and not refundable to Walgreens? There were -- there were some minor clause --6 7 I don't remember the language again in the contract. I would have to see it. But there were some edge cases in which it could have triggered returning bits and 10 pieces of it. However, if I remember correctly, Theranos had the right to cancel the contract and --11 and not have to return this money. There was no 12 provisions for returning this money if we cancelled the 13 14 contract. 15 So we had come up with a lot of language to 16 lock this down in an ironclad way so it's not 17 nonrefundable. Because what we were providing them at 18 that point was exclusivity over CVS and other retailers 19 and some other guarantees that we gave them, best price 20 guarantee during that time period, the first 21 announcements. Right? There were a bunch of other 22 soft things that we had given them. So the idea was -- yes, my understanding at 23 24 that time was that this is 100 million nonrefundable 25 for the most part. Yeah. 0326 And did the \$100 million, other than 1 exclusivity, obligate Theranos in any way, in your mind, at the end of 2013? I mean, did Theranos 4 obligate itself to provide services for Walgreens --5 A Well, I think --6 -- as part of that fee? -- there is language here that talks about we cannot work with CVS. We have to work with Walgreens. If we wanted to work with anybody else and we were going to launch, let's say, in a certain state, we had 10 11 to go to Walgreens first and tell them, "We are launching in XYZ state." And only -- if they said no, in 30 days or 60 days or something like that, only then 13 14 we could launch with others. 15 And there were at least three states, I 16 remember, New York, California, Arizona, where 17 effectively, we couldn't work with others, like CVS, 18 particularly, which is -- was their main focus. 19 So -- so I don't know if I answered your 20 question or not. But the point is that we didn't necessarily have to -- to launch a -- at a certain 21 22 cadence with them, if this is what you're asking, or 23 provide services to them, but we couldn't anywhere else -- with anybody else either. 25 Q I guess, did -- I mean, did you ever provide 0327

any sort of services to Walgreens as part of this hundred-million-dollar fee is my question.

3 A Well, I think I answered that. By "services" is -- if you're talking about lab services, 5 specifically the answer is: I don't remember in the 6 contract if there was any specific language that we had

7 to provide lab services. It -- it was a payment. This

is why it was called an innovation payment. It was a

payment for us providing services at Walgreens, plus

10 these -- a lot of these soft assets that we provided to

11 them, like exclusivity over CVS, which was the -- I 12 mean, which was the main trigger for this amendment.

13 They wanted to make sure that they locked us down.

14 Q Did you understand that the -- that part of 15 the innovation fee could be convertible to equity at 16 any point in time?

A There was a very narrow window that they had 17 18 that -- if they had wanted to convert, which they 19 didn't. So I think there was some part of that that 20 technically could have been converted into equity, but I don't think they -- they pulled the trigger on that.

22 That didn't happen, so -- and it's right here, I think. 23

Sorry, what are you looking at? 24 Page Number 103, ending in 103, Page Number 5 25 of the contract.

0328 1

9

13

18

0 Okay. And is that Section 7?

2 A Yes. Additional Equity Rights. "The parties agree that 50 million of 75 made by Walgreens may be converted at Walgreens' option into equity on such terms as are made available to investors in Theranos prior equity financing in the first quarter of 2014." And they didn't do that. 8

Q Okay. And then the next sentence says, "The parties also agree that upon singing this agreement, 10 Walgreens will receive an option to purchase up to \$50 11 million in Theranos equity on terms made available to 12 investors who invested in the prior equity financing."

You didn't view that as part of the 14 innovation fee?

15 A No, not at all. Absolutely, that was 16 separate. If they wanted more equity, they had to -- to 17 give more cash.

> And what --O

19 A Let me tell you why. The reason is: We were 20 absolutely focused on the fact that we had already 21 provided them great service, which is our exclusivity, not talking to -- not working with anybody else, 23 focusing our entire company on Walgreens. So, yeah, 24 absolutely.

25 O I guess in your view, did this 0329

1 50-million-dollar option to purchase additional equity

2 similarly have a time limitation of the first quarter

```
of 2014?
      A You know, I think the language seems to be
4
   not clear about that, but I don't know the answer to
5
6 that. Had they come back and they said, "No, we want 50
7
   million equity and there's no time limit on this one,"
   you know, we would have dealt with that at that point.
8
9 But in general, we were not eager to have Walgreens'
10 equity -- give equity in general.
       Q Why not?
11
12
         Well, they were our distributor, and we knew
13 the animosity between them and CVS and -- and others.
14 So giving equity to one basically meant the other will
15 just not -- it will be very a difficult partner to work
16 with. Even if you give them better terms, the fact
17 that the other guy may make a dime from their
   partnership with us was a major issue for a retailer.
19 I mean, it's a pretty brutal competition.
20
          MR. KOLHATKAR: It sounds like you may be
21
   getting a little hoarse. Why don't we go off the
22 record. It's 4:41.
23
          THE WITNESS: Thank you. I appreciate that.
24
          THE VIDEOGRAPHER: Okay. It's 4:41. We are
25 going off the record.
0330
1
         (A brief recess was taken.)
2
         THE VIDEOGRAPHER: Rolling.
3
         MR. KOLHATKAR: Back on the record at 4:51.
4
         BY MR. KOLHATKAR:
      Q Mr. Balwani, we didn't have any substantive
5
6
   discussions during the break; is that correct?
7
      A That's correct.
8
         BY MS. CHAN:
9
      Q Mr. Balwani, is it your testimony today,
10 then, that at the time that Walgreens and Theranos
    signed Exhibit 63 in the summer of 2013 that the
12 75-million-dollar innovation payment adding to that the
13 $25 million that had already been paid, that was
14 Theranos's to keep and was not returnable to Walgreens?
15
       A Like I said, there were some clauses in the
16 contract that I don't remember that could have
   triggered returning some of that money, but I don't
17
18 remember what those clauses were. But for the most
   part, my understanding is that yes, that money was
20 nonrefundable.
21
       Q Okay. And what portion do you recall may
22 have been refundable to Walgreens?
       A I think it was not quantitatively defined, is
23
24 my recollection. Yeah, that's -- I don't remember
25 exactly what the quantitative number was. But -- but
0331
1
   it could have been zero or it could have been more.
2
         MR. COOPERSMITH: And it's obviously in the
3
   contract if you want to go over the specifics.
4
         BY MS. CHAN:
```

5 Right. And so -- and earlier in your testimony before the break, you mentioned that the 7 75-million-dollar payment was being accelerated in 8 exchange for greater exclusivity rights for Walgreens. 9 Do you remember that testimony? 10 A That was one of the things. There were other 11 things here that we also had committed to as part of 12 that. One was: If you look on Page Number 1, which is Page Number 0099 -- ending in 0099, it was that second 13 paragraph, first line, "It is the intention of the 15 parties to develop a mutually beneficial strategic relationship that facilitates the successful deployment 17 where Theranos will nationally establish Walgreens as a 18 national partner for Theranos." 19 So we were --20 THE WITNESS: Doing okay? 21 THE REPORTER: Yeah. 22 THE WITNESS: Yeah, I was cautious. 23 And we were making a commitment to Walgreens 24 on that front also. That we were a national partner 25 with them. And they are obviously -- as you can see 0332 1 here, that they are making a commitment that they are a 2 national partner. 3 BY MS. CHAN: 4 O Okay. The exclusivity rights that had been negotiated, at what point -- or how long would Theranos 6 have to perform under those rights and give --7 A Uh-huh. 8 -- you know, Walgreens exclusivity before 9 Walgreens would be satisfied that Theranos had upheld 10 its share of the bargain? 11 Yes. I think there are details here on Page 12 Number 2, which is the page number marked 0100. 13 There's an exclusivity section here that talks about 14 when and how long the exclusivity will last on a 15 market-by-market basis and also names over who. So 16 Walgreens is willing to commit to a higher level of 17 build-out -- do you guys see it (indicating)? 18 Where are you pointing to? 19 Page Number 2, the exclusivity paragraph. 20 Okay. Oh, yes, I see that. 21 Yeah. "The respective stores, in order to provide service to Theranos, the party's expectation is the majority of Theranos spaces will be gold or silver spaces with no more than 20 percent bronze spaces and a 25 minimum 40 percent gold spaces. As such, the parties 0333 agree that increased exclusivity to present if a fair 1 market value in exchange for such commitment while the parties acknowledge the need to further document --" 4 and then it goes in the next paragraph. 5 It talks about -- in the fourth line of that paragraph that "With respect to California, Arizona,

- 7 and New York, the parties agree to the following
- 8 exclusivity framework: For each state listed above,9 for the period of 18 months commencing on the date on
- 10 the 20th, Walgreens stores or other number of their
- 11 parties may agree located in such state are actively
- 12 collecting samples for commercial patients, Theranos
- 13 shall not provide testing services or samples collected
- 14 on its behalf to any of the following: Walmart, CVS,
- 15 Rite Aid, Target."
- And then -- and there are a couple of other
- 17 things here. And then also, I think there's another
- 18 section that says exclusivity will last for 18 months
- 19 and then automatically renews for 12 months if
- 20 Walgreens has fulfilled its commitment.
- 21 Q Okay.
- 22 A And then the next paragraph -- do you want me
- 23 to continue?
- Q Oh, I was going to ask you: So it sounds
- 25 like there was some period of time that was set in the 0334
- 1 contract for which Theranos needed to give -- to give
- 2 exclusivity to Walgreens and not work with other retail
- 3 pharmacy partners; is that right?
- 4 A The net effect was going to be that, yes.
- 5 Q Okay. It was something at least 18 months
- 6 and there was some renewal provision --
- 7 A Yes.
- 8 Q -- if all went well?
- 9 A And there were some exclusions for, I think,
- 10 Safeway and then ultimately for Walmart also.
- 11 Q Okay. So -- so why would it be appropriate,
- 12 then, to think that Theranos could keep the
- 13 75-million-dollar payment if Theranos still had to
- 14 perform on its exclusivity obligations?
- 15 A I'm not sure if I understood the question.
- 16 Q If Theranos still had to ensure that it was
- 17 being exclusive to Walgreens --
- 18 A Right.
- 19 Q -- and not work with other partners --
- 20 A Right.
- 21 Q -- why was it appropriate for Theranos to --
- 22 to believe that it could keep the \$75 million? If
- 23 Theranos walked away and went with CVS --
- 24 A Right.
- 25 Q -- wouldn't Theranos have to return the money 0335
- 1 to Walgreens?
- 2 A If the contract says so, but the contract
- 3 doesn't say that.
- 4 Q Okay. So what would be Walgreens' remedy,
- 5 then, if that happened?
- 6 A Well, we -- I will have to look in the
- 7 contract. There's a whole remedy section under
- 8 contracts if this happens and that happens, then what

happens? But I know there's a remedy section in the 10 contract.

11

13

14

Q Okay. But it's your understanding that the 12 \$75 million would not be returnable to Walgreens, that would not be a remedy that they could get back?

Again, I don't know the language, but my 15 understanding at that point was that the -- the

16 language, the way it was written was because the -- the

17 thing is: We didn't have to necessarily give them

18 exclusivity all the way through 36 months. For

19 instance, just picking a number -- for us to have 20 earned that money because the clock had already started

21

ticking. We had already delivered on our exclusivity

commitment to Walgreens long before we started and -- I

mean, long before we signed this contract.

24 So exclusivity commitment -- now, from an 25 accounting perspective, if the accountant said, GAAP 0336

1 says you can only recognize it by month by month -- I'm not an accountant. That was not my forte. And how do you recognize that on the -- on the books.

4 But my understanding was that the way we had 5 structured the contract was -- we had long discussions about that. This was not something that they forgot.

We had long discussions that "Look, we are doing all

these things for you. We will continue to do this for you, but this hundred million dollars is not coming

10 back to you," except for those couple of clauses that

we had talked about. If we didn't succeed or we didn't

12 deliver on some things, then it may not come to you.

13 And that's -- the language is there in the contract.

14 But we had very clear discussions about this. A

15 hundred million was ours.

16

7

8

Now, the reason -- also, there's a reason why 17 the innovation payment was called innovation payment. 18 Because Walgreens didn't want to just be, you know, 19 say, "Here's a hundred million dollars," and then somebody who -- some of the lawyers, I think, were ultraconservative told them Medicare may think of that as a kickback. That, you know, Theranos is performing services in your location and now because of that, 24 you're getting patients.

25 So referring Medicare patients between two 0337

healthcare providers is I think there are laws against this. Again, I'm speaking out of my league here. But it was -- even this term was used intentionally to make sure that hey, this is not anything like that. This is actually an innovation payment in exchange for all of 5

6 these things that you're providing us.

And it was also your understanding that if Theranos decided not to go out and roll out with

9 Walgreens that also Walgreens wouldn't be able to get

10 back that 75-million-dollar payment?

```
11
          I mean, the way -- again, the way we read the
12 contract, at least at this point, because we were
13 delivering to Walgreens, my -- my understanding was:
14 Yes, we had already done the heavy lifting, the
15 contract was already signed in 2012, the amendment, and
16 at this point, we have mostly delivered and will
17
    continue to deliver. But if Walgreens changed its mind
18 and stopped rolling out with us and we had to go over
19 to CVS, the money is non -- nonrefundable to you.
20 Absolutely, that was my understanding.
21
          BY MR. KOLHATKAR:
22
          But what if -- what if Theranos changed its
23 mind and decided it -- it wasn't worth it to keep
24
    working with Walgreens in -- in, say, January 2014?
25
          Well, we were stuck. We couldn't just work
0338
1 with anybody else.
      Q Right. So I'm saying, if Theranos just
2
3
   decided it's not worth it, the -- the Walgreens
   relationship isn't worth it. We're not going to stick
5
   to this exclusivity provision. We're going to go
   contract with Rite Aid or something --
7
      A Well, you're talking about what happens if we
   breached the contract.
9
         Right.
10
       A Well, I don't know. Again, I'm not a lawyer,
11
   so that would be out of my league to say what happens
   when you breach the contract. Obviously, when you sign
12
13
   a contract -- at least my understanding of this was:
14 You don't anticipate breaching the contract when you're
15 signing the contract.
16
          I mean, there's remedy provision --
   provisions there, and I think my understanding was:
17
18 The worst that would happen is: If we don't work with
19 them, we can't work with anybody else either, at least
20 CVS. Which is -- would have been still a good outcome
21 for Walgreens, that as long as we didn't work with CVS.
22
   This is why the whole thing was structured this way.
23
          MR. COOPERSMITH: I just want to say for the
24 record, and maybe this is coming, but we're talking
25 about specific terms of a contract as to whether
0339
   something is going to be refundable or not refundable.
1
   And the contract exists. We could look at it. We
   don't need to have speculation about whether it's
```

5 reference to this specific language.
6 So that seems to me a better way. But
7 obviously, you control the record, it's your
8 examination. So -- so go ahead. But I just want to
9 make sure our position is clear that we could go to the
10 contract and then look at the chapter and verse to make
11 sure we're all clear on what it says and what it
12 doesn't say.

refundable or not. I mean, we can look at it with

```
13
          MR. KOLHATKAR: Sure, sure. And I don't want
14 to get into a long discussion about contract
15 interpretation.
          BY MR. KOLHATKAR:
16
       Q I'm just trying to get a sense of what your
17
18 understanding of the contract said and -- and what it
   meant to you at the time.
20
          Yeah. That was my understanding.
21
       Q
           Did --
22
           Again saying -- having said that, I'm -- I
23 will also add that I'm speaking from memory. I'm sure
24 there are specifics there that if I see them, it may
25 refresh my memory and things. I may be misremembering
0340
1 things.
2
      Q Did Theranos seek the acceleration of the
   innovation fee because it was running out of money at
3
4 the end of 2013?
5
      A No, that was not the key reason. We would
6 have, you know, raised the money. We would have --
   money -- I mean, plus I was there. I would have --
7
   just like I bridged the loan to the company before, I
   could have done that.
       O What were Theranos's discussions around its
10
11 cash position at the end of 2013?
12
       A At this point we wanted to broaden our
13 partnerships. We wanted to start thinking about
14 working with CVS and others, and Walgreens knew that
15 that was always the top of our mind. That we didn't
16 want to be just exclusive with Walgreens.
17
          And so a lot of this was, you know, done by
18 then in -- just a month before -- or actually, even a
19
    couple of weeks before we started negotiating this
20 amendment, the Walgreens CEO and their executive team
21 had invited Elizabeth Holmes and myself to a dinner,
22 executive dinner, in Arizona, and -- I think it was
23 November, but I may be off by a few months. It was
24 cold. It was November.
25
          And in the executive meeting, we were the
0341
   guests of honor, and his -- the CEO and his entire
1
2 direct reports were there, most of them were there.
3 And he went around the table and he asked pointedly
   every single person "Tell me how you're going to make
   sure that Theranos is going to be the most successful
   project that we have done in the company," or something
7
   like that.
8
         So these guys were already thinking that we
   need to make sure that we own this thing and we run
10 with it and we accelerate this thing. They requested
11 this meeting. We didn't go there. We didn't ask for
12 that.
13
          So it was their work that brought about these
```

14 discussions, that triggered it. And they wanted to

15 make sure that we get locked on with Walgreens and not 16 work with anybody else. 17 So you're saying that they proposed 18 accelerating the payment of the innovation fee? 19 No. They proposed -- Walgreens is not going 20 to accelerate payment to you. They proposed the amendment. They proposed increased exclusivity. 22 They -- we were complaining about building out stores because we were not specific enough on what the store is going to look, and they saw how our Palo Alto looked 25 like and this is kind of what we wanted everywhere. 0342 1 So they said, "Yeah, we will do it," but they 2 found an opportunity to lock us down further. And they said, "Well, we want more exclusivity. We especially want to make sure you don't work with CVS." So that 5 triggered it. 6 Q So once you had this amendment in place and you -- you were working on the Walgreens rollout, on the Theranos team, sort of who led the -- I guess, you 9 know, the oversight of the Walgreens project? 10 I was involved quite a bit, especially 11 through 2014, and I think over time, my involvement 12 with the rollout of the project decreased. I had hired 13 a general manager in Arizona. (b)(6); (b)(7)(C) 14 (b)(6); (b)(7)(C) And we built a team under her, who was an operations person. She was basically making sure that 16 trains are running on time, the phlebotomists are being 17 managed, the couriers are picking up the samples. We 18 also had a lab in Arizona at one point, and she was 19 also managing the administration side of the lab also. 20 I guess, who -- who were your primary points 21 of contact on the Walgreens side at the sort of late 22 2013 or late 2014 time period? 23 There were -- there was no one person. It was a broad team. (b)(6); (b)(7)(C) 24 25 was one of my primary contacts. There was  $034\overline{3}$ another person, his name was (b)(6); (b)(7)(C) 1 He was, I think. (b)(6); (b)(7)(C) 2 I forgot his title. He was 3 at that time. And he was put in charge of this project from Walgreens' side, so he 4 5 became my point of contact. He had another person reporting into him. 6 7 He also got in touch with me around the operational details, but he was also 8 engaging with my team in Arizona. But he was an ops 10 guy, operations stuff. (b)(6); (b)(7)(C) 11 12 (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) 13 So he was a. 14 you know, close associate. I used to talk to him. 15 And there was another guy they brought, and (b)(6); (b)(7)(C) 16

```
17
               I forgot the title. I would talk to him.
18 He would be on the calls often.
19
          So there were quite a few people who were
20 my -- my point of contact. And obviously, (b)(6); (b)(7)(C)
    were close to (b)(6); (b)(7)(C)
21
                                          You know, we loved
22
    working with him. So we were a pretty close, like,
23
    family with these guys at that time.
24
       Q And, I guess, is it fair to say that
25 Walgreens and Theranos in this time period were in
0344
1
   pretty constant communication about the specifics of
   the rollout in Arizona?
3
      A I don't know about constant communication
   about every aspect because there were a lot of
   things -- there were a ton of details. I mean, this
5
6
   was our entire business. So chances are, not
7
   everything. But to the extent possible, people were
   talking at the operation level, and I was talking to
9
   the executives quite often. Yes.
10
          And, I guess, what did you -- what metrics
11
    were important to Walgreens from your perspective?
12
          Well, a number of people coming to the store.
13
    If more people come, the more Walgreens makes money.
    So certainly more people coming to the store. And
    obviously -- excuse me -- the quality of service was
   important to both of us because Walgreens technicians
17
    were interfacing with the patients. They were checking
18 them in.
19
          And in 2014, under the current model, this
20 contract, Walgreens technicians were performing finger
    sticks. We had spent a lot of time training them. We
22 had created training curriculums. So that was one of
   the things we were following also that what percentage
    of customers we were performing a finger stick on. And
25 then the turnaround time of patients samples.
0345
1
         So there were a few matrices (sic) related to
   the service being performed in the store.
3
      Q And was -- was the percentage of blood draws
4
   that were taken on finger stick verse venous important
5
   to Walgreens from your perspective at this time?
6
          From 2013 and '14, yes, it was important. We
7
   usually talked about that, so I assumed it was
8
   important.
9
      Q You described the -- the number of people
10
   coming into the stores. Was that commonly referred to
11
    as patients per day or patients per month?
12
           Yes.
13
       O
           I guess, would "patients" be --
14
           They were all terms we used. But, yes, we
15 used to call them patients. But at some point, I think
    we changed the terminology. We said we should -- we
17
    should call them guests like Target does. That's a
   better name than patient. They may not be sick, so why
```

```
19
   call them patients?
20
          So then we changed it to guests. But
21 unfortunately, the old patients per day kind of stuck.
   And at least in the software side of the world, once
   you code something -- and actually, were calling them
24 patients in the code, so it stuck for a while.
25
          I'm going to hand you another document that's
0346
1 been marked as Exhibit 173.
2
         Do you recognize Exhibit 173?
3
      A I don't recall it, but it seems like a
4
   Walgreens deck.
5
      O Do you -- I mean, does the format look like
6 PowerPoint decks that you had received from Walgreens
   from time to time?
8
         It looks like a deck prepared by Walgreens,
9 yes.
10
         And what -- what was the purpose of these
11 decks?
12
       A It -- it was -- it was different, I think,
13 most of the times. But this one has a title saying
14 "Executive Steering Committee Meeting," so I guess this
15 was a presentation that some people at Walgreens -- and
16 I forgot, I didn't notice the names -- were making to
17 somebody else at Walgreens.
18
       Q And, I guess, what was the Executive Steering
19 Committee?
20
       A You know, I didn't understand Walgreens'
21 naming conventions. I think it was people who were
   responsible for managing a project or steering a
23
   project to success, but --
24
          If you turn to the page ending 48212 --
25
       Α
          Yes.
0347
1
      Q -- it's sort of a type of org chart that --
   that describes the Executive Steering Committee,
   Operating Committee, and then some other information
   below that.
5
      A Yes.
6
          Do you see that?
      O
7
      A
         I do.
      Q And do you see that you're listed as a member
   of the Executive Steering Committee?
10
       A I do.
11
       Q Did you understand that you were part of sort
12 of the steering committee?
13
       A No. I don't -- this -- this was very nice of
14 Walgreens to put my name in there. And I may have
15 attended a meeting. I actually don't even remember
16 attending a steering committee meeting because I don't
17
   recognize some of these names.
18
          But -- yeah, I don't -- I didn't pay
19
   attention to that. I think it may be -- I may be an
20 honorary member because I don't think I was going to
```

```
21
    Chicago and doing these meetings with these guys.
22
          BY MS. CHAN:
23
           Did you receive this presentation in May of
24 2014?
25
       A It seems like it. I mean, it has my --
0348
1
   e-mail of my -- I just saw my assistant's e-mail here.
   It has my e-mail, actually, (b)(6); (b)(7)(C)
          That's the (b)(6); (b)(7)(C)
3
4
          Yes.
      Α
5
          That's your e-mail address?
6
      A Yes. That's my e-mail, yeah.
7
         BY MR. KOLHATKAR:
8
      Q Do you -- do you -- do you recall reviewing
9
   it on or about March 14, 2014?
          I don't. If they had asked me to look at
10
   something over the phone, I may have looked at it, but
11
    otherwise -- it may have been that because, as you just
   pointed out, I was on the steering committee that they
14 sent it to me as an FYI, or maybe I participated over
15 the phone. I don't remember. But I didn't pay
16 attention.
17
       Q If you look at the page ending 48215, there's
18 a section on venous draws.
19
       A
          Yes.
20
           It says, "Originally estimated that by the
       Q
    end of February 2014 would be below 20 percent of draws
22
    and below 10 percent by end of August."
23
       Α
          Yes.
24
          Who was providing projections of -- or
25 estimates of venous draw percentages to Walgreens?
0349
      A Yeah. So, first of all, if you'll notice, I
1
2 think this is still 2014, so we are early, and end of
   February, I think we were in three or four stores. So
4 if they were given any estimates on projections on what
5
   we were targeting -- I don't think these are
6 projections. This is what I was -- we were targeting
   because we were also learning and modifying a lot of
8
   things in our store.
9
         So it probably would have come from me. At
10 this level, I don't think anybody else would have given
   them these projections, so chances are they came from
12 me.
13
       Q And do you see that the -- it says, "Current
14 projections: Below 20 percent by the end of August, 90
   percent confidence level. Below 10 percent by the end
   of October, 95 percent" --
17
       A
           Yes --
          -- "confidence level"?
18
19
          -- I do see that.
20
           Again, who from Theranos would be providing
21
   those confidence levels?
22
           Well, I don't know the confidence level, but
```

23 the projections on what our targets are for certain 24 timelines probably came from me in conversations with 25 Walgreens around what we were planning on doing in 0350 1 those stores. 2 But I would not -- because a lot of what we 3 were doing depended on Walgreens also. Because they were the ones who were executing. They were the ones who were providing us the technicians who could do the 6 finger sticks. Many times, they didn't have enough people to do finger sticks, so we had to jump in and 7 perform the testing. 9 So this probably was a collaborative effort 10 between me and Walgreens, but primarily, I would have been the person providing this. 12 Q In March of two -- or sorry, May of 2013, did 13 you --14 MS. CHAN: 2014. 15 BY MR. KOLHATKAR: 16 Sorry, 2014, did you have a high degree of 17 confidence that Theranos would have less than 10 18 percent of its test venued at Walgreens on venipuncture 19 by the end of October? 20 A I mean, if I -- if I said this, then I must 21 have had the confidence. The reason was: If you look at how we started performing our services at Walgreens, our contract called for Walgreens' techs performing the services. So only finger stick. And of course, urine. 25 Like you said, that's easy. Walgreens' techs were 0351 going to do finger stick. We had put our phlebotomists 1 in those stores to train them and make sure they performed those services correctly. And then our plan was: By May or June, our 4 5 phlebotomists would leave the store, and they would go 6 on and train the next batch of Walgreens technicians. At that point, only Walgreens' tech would be doing the 7 8 finger stick, and they could only perform tests that 9 were done -- that were being done by finger stick. 10 Now, as we launched, we started to listen to 11 the market and learn about if that's the right 12 strategy. One of the things that we learned was, like I

Now, as we launched, we started to listen to
the market and learn about if that's the right
strategy. One of the things that we learned was, like I
think I mentioned earlier, that physicians wanted us to
do -- provide a broader menu including venipuncture.
Physicians generally didn't care about finger stick or
venipuncture. And since we had the phlebotomists in
the store anyway, and since Walgreens' technicians were
not quite trained yet, we added more tests and we
started doing venipuncture.

So one of the discussion points we were
having at Walgreens' was: "Hey, look, there's a value
add to having a broader menu, which includes
venipuncture because physicians like it, patients
certainly like it because of the pricing and they save

25 a lot of money." So we decided that around May, June, 0352 1 or as we moved our technicians out from the stores, we would put them in the Walgreens 24-hour stores. 3 So Walgreens' retail pharmacies have two 4 types of stores. One is just a typical Walgreens 5 store, but then they have a 24-hour pharmacy, which is 6 open 24 hours. And they are -- in almost every state, 7 they have those 24-hour pharmacies. And they also -because they're 24-hour pharmacies, they're bigger, they have more space. They actually have also a 10 dedicated room. 11 So it was easier for us to actually put our 12 phlebotomists there full-time. Maybe also at -- also a Walgreens' technician. The reason was: Now when a 14 patient comes to our store, if we cannot do finger --15 that -- that lab order from finger stick, we can 16 redirect them to a 24-hour store so we can do 17 venipuncture on them. 18 So some Walgreens stores would have a vena --19 the 24-hours stores would have a phlebotomist provided 20 by Theranos doing venipuncture. At all of their 21 stores, we were going to do finger stick. Makes sense? 22 Of course you don't have to answer it. 23 But that's the -- but the point was: As we 24 moved towards that model, as it was anticipated in the 25 contract, and obviously, we would have modified the 0353 1 contract to reflect that -- that either Theranos's phlebotomists, or even at some point Walgreens wanted 3 to hire phlebotomists for 24-hour stores --4 MR. MCKAY: Slow down a little. 5 THE WITNESS: -- by default, the -- most of the tests that were being performed would have been 6 finger stick in the non24-hour stores and only the 7 24-hour stores would do venipuncture, and that would 9 have given us these finger stick percentages. 10 So long answer, but that's the kind of 11 background. 12 Q Just if I could summarize that answer, what you're saying is: Your thought was, these below 10 14 percent would be specific to those --15 A 24-hour stores. 16 -- 24-hour stores? 17 A Correct. It was not just the thought, it was 18 a very serious detailed discussion with Walgreens that 19 that was an excellent plan. Because the choice was: 20 Either you do that or you have a narrower menu, which is finger stick only, and -- and then you lose some 21 22 customers. 23 But that was the thought that Walgreens liked for a different reason because they thought if all you

25 do is finger stick, and Walgreens' technician across

the country can do this, it can scale faster. Because, you know, it's easier to do finger stick.

And they had done something similar with -with shots, like flu shots and other shots, so they thought it was an easier model to scale across the nation.

- Q If you look at the bottom of the slide, it says, "Why a high number of venous draws so far?"
  - A Uh-huh.

3

4 5

6 7

9

10

15

- Q And there's two bullet points provided.
- 11 "Learning process around ordering patterns" and
- 12 "Ordering patterns are different than anticipated and
- 13 Theranos is adding new cartridges rapidly to address
- 14 these patterns."
  - Do you see that?
- 16 A Yes, I do.
- 17 Q In other words, Theranos's validation of
- 18 assays on finger stick technology was sort of not
- 19 identified here as -- as a reason; right?
  20 A Yeah, because that was not the limiting
- 21 factor here.
- 22 Q Why were these the only limiting factors?
- A Because by May, like I said earlier, we had
- 24 learned from the market that what people cared about
- 25 was price transparency, low prices, convenience, quick 0355
- 1 turnaround time. Those attributes were actually
- 2 gaining more traction than finger stick. A lot of
- 3 patients actually didn't care about patient -- finger
- 4 stick. That's -- the learning -- the ordering patterns,
- 5 this is what we were learning. The reason --
  - Q I mean -- I'm sorry to interrupt, but I guess
  - this -- this looks like, you know, this is specifically
- 8 related to a reason for the high number of venous9 draws.
- 10 A Yes. Of the -- yeah, go ahead.
- 11 Q So -- so can you explain, I guess, why these
- 12 are the -- the two reasons for the percentage of venous draws?
- 14 A Yeah. Unfortunately, it has a little bit
- 15 more detailed answer.
- 16 Even if a -- a doctor orders a whole bunch of
- 17 test that can be done from finger stick easily, if you
- 18 order more than a certain threshold, they trigger a
- 19 venipuncture. Right? Makes sense? Sorry. It does.
- 20 And -- and what happens is: As we learned
- 21 more and more, we wanted to go -- and one option was
- 22 to -- for us to go and optimize our assays to reduce
- 23 the volume requirements for the assays which are
- 24 causing the threshold triggers.
- 25 And this is what it means by -- even on the
- 0356
- 1 general chemistry or the most routinely ordered test,
- 2 the reason why we still triggered a venipuncture is

because people just ordered more tests. And what we had anticipated, that some tests will not be ordered with others, was being proven wrong. Also, primarily, because we had a broader menu available.

7 So the combination of those two meant doctors are ordering more tests in some cases, which just directly triggered venipuncture, and in many cases, 10 doctors are ordering tests that we could have done from 11 finger stick, but they were triggering venipuncture 12 because there was more of them. 13

Actually, if I may take just a -- one minute 14 and explain one more thing, if that's okay.

> Q Sure.

15

23

4

5

18

20

21

23

16 This is one thing that has been difficult to understand for most people because they think you have 17 finger stick, you have venipuncture. What percentage 18 do you do finger stick and what percentage do you do 19 20 venipuncture? And the simplest way I used to explain 21 to people was using this example. And if that's okay, 22 I would like to share that with you.

> Q Go ahead.

24 Yeah. Let's assume a doctor sends you ten 25 patients, and those ten patients have the identical ten 0357

tests. Right? Nine of those tests, we can do from 1 finger stick, one we cannot. It requires venipuncture. Okay? 3

And these ten patients came -- and assume the doctor has told us "Fulfill the whole order. Don't remove anything." Now, nine out of those ten tests, we could have done from finger stick, but because of that one test, it triggers venipuncture.

9 Let's say there's another group of ten 10 patients, they also have ten tests -- different doctor, different patients. They have ten tests. All of 12 those, we can do from finger stick, but if you put all 13 ten of them together, it becomes too much blood from 14 finger sticks. It triggers a venipuncture. Right? So 15 in those cases, assuming again the doctor says, "Do all of them or I'm going to send them somewhere else," it 16 17 triggers a venipuncture.

The third one is: In our software, we used 19 to keep track of people who are good bleeders and who are not. And good bleeders is people who can bleed easily from fingers. Even when you give them water, 22 some people just have really tiny fingers, and people who have different fingers, they just didn't bleed very 24 well.

25 So we would capture that information in 0358

- 1 our -- in our software so that next time when the
- patient came, we just wouldn't even try a finger stick
- 3 unless they asked for it. We would just default the
- venipuncture because the patient experience was being

negative. 5 So let's assume ten of those people showed up 6 7 also, and the software prompted all ten of them be venipunctured. Now, let's assume there's another, a fourth group, and this is the last group that had ten 10 patients. We could do all ten of them from finger stick, but the doctor has said, you know, the example I gave you earlier that "This finger stick is new. I 13 love you for everything else, but not finger stick 14 yet." Let's assume this is that doctor. 15 Now, again, we could have done all those ten 16 tests from finger stick, but the doctor has instructed 17 us to do venipuncture, and the software will 18 automatically default venipuncture. 19 So in this case, we had 40 patients, 400 20 tests. Only ten of those we couldn't do from 21 venipuncture, 390, 97.5 percent, we can do from finger 22 stick. That's just one example of ordering patterns, 23 how it impacted our finger stick versus venipuncture 24 decisions. 25 So even though, technically speaking, if you 0359 1 asked me what percentage of tests you can do from finger stick, in that example, let's assume that's the whole world, I would say 97.5 percent. But if you stood outside the door of the Walgreens and talked to 5 those 40 patients, every one of them got a 6 venipuncture. 7 I guess, at this point in time -- so I -- so 8 I understand that, you know, you felt that venipuncture versus finger stick was maybe not the most relevant 10 measure of success given the feedback you were getting 11 from -- from -- from doctors. 12 A Right. 13 Did Walgreens continue to track finger stick 14 versus the venipuncture as a metric to the value that 15 Theranos was offering? 16 A Yes, they did. 17 I guess, was that a point of frustration to 18 you, then, given -- given this other information that 19 you had? 20 A Not -- not necessarily. In 2014 -- first of 21 all, Walgreens had raw data around finger stick percentages. They always knew anytime a patient came in, when you checked them in, the person doing the 24 check-in is a Walgreens technician. So they, of 25 course, know how many percentages they are getting --0360 of finger sticks that they are getting. So they 1 2 already know. 3 In 2014, I was still working with them because our contract and business model was what I 5 explained to you earlier, which is: Non24-hour stores, Walgreens technicians doing finger sticks, and then

```
24-hour stores, venipuncture and finger sticks, both.
8
         So, no, 2014 all the way through
9
   Septemberish, August, not a point of frustration. But
10 around that time -- sorry. Do you want --
11
       Q
          Yeah.
12
       A
          Around that time frame, we started discussing
13 the model shift that it may make sense, more sense for
   us to take over more and more of performing the
   service, put our phlebotomists, and -- and we started
15
16 shifting.
17
          Now, even after --
18
       Q Sorry, just can you clarify what time frame
19 you're talking about that --
20
       A Yes.
21
       Q -- that it started shifting.
22
       A I think it was around August, September, we
23 had early -- September, these early conversations.
24
       Q Of 2014?
25
       A Yeah, 2014. Sorry. Yes, good point.
0361
1
         And then October 2014, the conversations got
   deeper, and there were changes -- monumental changes
   happening at Walgreens. Their management was changing.
   And I can get into that if you want.
5
         And -- but the finger sticks were still
   important to them and us because it was a
6
7
   differentiating factor. But that's -- that's what it
8
   was.
9
         And in 2015 -- after 2015, January, the
    equation shifted because then they effectively became
    the landlord and we became the tenants. And then that
12 was a different -- a different world for us.
13
       Q I want to turn to another slide in this deck.
14 It's ending in Page 48220.
15
          And do you see this diagnostic testing
16 timeline? Are you able to read that all or --
17
       A I can try.
          You know, I can mark as a -- as another
18
19
    exhibit a blown-up version of this slide.
20
       A Oh, you have a bigger one?
21
           Yeah. I'll mark it as -- I'll mark it as
       O
22 244.
23
       A
           Thank you.
24
                   (SEC Exhibit No. 244 was
25
                   marked for identification.)
0362
1
         BY MR. KOLHATKAR:
2
      Q Do you recognize review -- reviewing
   timelines like these from -- from Walgreens?
3
      A No, I don't recall. Not often. I don't --
4
5
   if -- if they sent me this one, this is probably the
   only time, or a couple of times more, but not often.
6
7
      Q It looks like in -- you know, there's -- it
   says, "Pilot ten stores in Arizona, May 14." And then
```

9 it looks like it's still got pilot stores, 11 stores by 10 August 21. And then it looks like Q1 '15 and Q2 '15, 11 it's market selection and store selection. And then 12 in, looks like, Q4 2015, 500 stores. 13 Do you see that? 14 A Where is the 500 stores? 15 Under --16 A Oh, yeah. 17 Q -- scale, 500 stores. 18 A Yes, I see that. 19 Q And then -- and then there's another market 20 selection and store select --21 A Yeah. 22 Q -- selection and scale to a thousand stores 23 by Q4 fiscal year '14? Yes, I see that. 24 25 And was it your understanding in May 2014 0363 1 that Walgreens only planned to open 500 stores by the end of fiscal 2015? 3 A No, that was not. 4 What was your understanding about the number 5 of stores Walgreens was planning on? We had -- we had different meetings and we 6 had different numbers. I recall -- and these are -these are fiscal years, as you pointed out, so you're 9 talking about Q2 fiscal year 2015 would be around 10 January of 2015. Actually, even sooner. August, 11 September, October, November, December, January, 12 February. So in the winter of 2015. 13 We had another meeting, I think, in summer --14 I don't know when -- when is this slide is from? 15 What's the date for this? 16 Q It looks like to me --17 A May. 18 -- from the May slide. 19 Yeah. I think we had another meeting that I 20 had participated in in July or August with Walgreens 21 that had 2,000 stores that we had discussed and 22 committed that we are going to push hard to roll out to 23 by fiscal 2016. So these numbers changed. 24 The other thing also is: As I learned, the 25 Walgreens -- this is for an internal audience. This is 0364 1 not for us. And Walgreens guys were very cautious not to overcommit themselves to the CEO and executive committee on what they were going to do. They wanted 4 to under-promise and over-deliver. So -- so that was their mindset also. 5 6 I guess, what -- what gave you the impression 7 that they wanted to under-promise to their executive committee and --9 They used to tell me all the time.

10

Who at Walgreens?

11 A 12 This would come up constantly. Like, "Don't" -- and when you're in front of the executives -- because, you 14 know, I'm an entrepreneur, I get excited about 15 technology, so I used to talk to them, and I used to 16 say, "Yeah, we have these possibilities of doing these 17 cool things." 18 And they would say, "No, no, don't -- don't 19 mention those things in front of our executives because 20 then they'll push us to move faster." 21 And so this was a constant, like, not once or 22 twice, constant at Walgreens, always under-promised to 23 the executives. 24 You can put -- you can put that aside and you Q 25 can put --0365 MS. CHAN: I have a couple of questions. 1 2 BY MS. CHAN: 3 So in your earlier testimony, I think you mentioned that one of the metrics that Walgreens was focused on was patients per store per day. 6 A Yes. 7 Q Do you remember that? 8 A Yes. 9 What was your understanding as to what 10 Walgreens wanted to see that number get to be? 11 Well, that's a good question. I think, 12 again, what they had promised the executives is, what I had heard from them was a 10- to 15-patient number is what they -- they -- they talked about. But between us 15 what we used to talk about is, you know, blowing past 16 that number, you know. 17 So we -- we knew from our firsthand 18 experience observing traffic at Quest Diagnostics and LabCorp that those guys get, on average, 80, a hundred plus, sometimes 200, 250 patients per day. So we knew 21 that the potential was very significant in terms of the 22 upside. But that was me -- my conversation with them. 23 And who did you discuss the goal of getting 24 to 10 to 15 patients per store per day with? 25 That was not my goal. I didn't discuss with 0366 1 them. They shared with me that this is what they're telling the senior executives is their goal. I didn't see their -- I didn't see their model. They didn't --4 they didn't share that with me. 5 Who shared that with you? Q 6 There was a guy, he was an His name was (b)(6); (b)(7)(C) accountant. (b)(6); (b)(7)(C) There was -- then (b)(6); (b)(7)(C) 8 (b)(6); (b)(7)(C) 9 10 (b)(6); (b)(7)(C) I mean, it was a common theme. I used to spend a lot of time with these guys. 12 Like I said, we were close like family.

13 But they used to say, "We are telling 14 everybody 10 to 15. When you get in front of the 15 executives, do not mention a number higher than that 16 because we will under-promise and over-deliver." 17 And what was your understanding in the 2014 18 time frame as to the number of patients per store per 19 day that you were seeing? 20 A In what time frame? 21 In 2014. 22 A Which time frame? 23 Q Did it -- did it change from --24 A I don't recall. Do you have an understanding as to what it 25 0367 1 was in 2014? 2 A I think it depended on the stores. There were some stores we were seeing receive 10, 15, 20, and some stores we were seeing five or even less per day on 5 average. We learned later, unfortunately too late for 6 us, that a lot of these stores that were assigned 7 Theranos -- to Theranos were the -- what Walgreens used 9 to call underperforming stores. These are the stores that were not performing for them as pharmacy and other 11 products they sell in Walgreens. 12 So they used to measure the metrics, and they put us in those stores thinking somehow we will sprinkle magic dust and make them high-performing 14 15 stores. 16 So what happened was: When a certain store 17 doesn't get enough Medicare patients, we -- we also don't get it by -- by default. So -- but it was later. 19 But that's the --20 Q Who -- who told you that you were being 21 placed in underperforming stores? 22 We got a spreadsheet from Walgreens that had 23 data on every single store Walgreens owned across the country, the entire country. Sales broken down by the 25 front end, the pharmacy, growth revenue numbers, 0368 1 ranking in a given geography. I had the entire spreadsheet for literally all eighty-eight -- 8,800 stores, a ton of data. When did you receive that? 4 O 5 I don't remember the date. I think it was maybe 2014ish, mid-2014 probably. 7 Who did you receive it from? 8 I personally didn't receive it. The person who received it was (b)(6), (b)(7)(C) and then he 10 forwarded it to me. Because it was -- we were -actually, it was a follow-up -- follow-on, I think, to 12 the comment that I made earlier that June -- July or August time frame, we were talking about, you know, 14 2,000 stores and we started thinking about where we

15 want to be, what geographies. And in that -- that meeting, I told 16 17 Walgreens, "Look, you know, you guys, you really 18 need -- the next 200 stores you give us, you've got to give us good stores so we can go and succeed and show 20 that this is a great idea. Because you have given us the toughest market in the nation, Arizona, and the 22 toughest -- the worst stores in the nation -- in your geography. And you need to step up and give us good 24 stores and good geography, good states like New York 25 and California so we can hit home runs." 0369 1 And did you understand, when you had these discussions with the Walgreens executives, that, you know, 10 to 15 patients per store per day was the goal and that there would be trouble convincing 5 management -- higher management to roll out Theranos services in Walgreens stores if you weren't able to 7 meet that goal? 8 A No. That's completely not my understanding, 9 and that would also be wrong. Because as you saw in 10 the contract, Walgreens made a hundred-million-dollar commitment to us for a national rollout, and if we went 12 to them and said, "Look, we want to launch in 13 Illinois," and they said, "No, we are not committed," 14 then we would have launched with CVS. The amendment 15 shows that very clearly. So -- you have -- you have a 16 question, it seems like. 17 I don't think anyone wants to interrupt your 18 answer. 19 A Okay. 20 So go ahead. 21 Oh, yeah. So -- no. So it was very clear to 22 us that if they said no, great. We are going to work 23 with CVS or somebody else is the first answer. 24 The second thing is: It is just simple math. 25 If you look at a hundred million dollars and how they 0370 were going to make any profit, let alone break even, it meant a very large number of stores with a large number 3 patients coming in. 4 So these guys were all in -- all in. As 5 told us at the dinner that I talked 6 about in Arizona, that this company is all in. We --7 we are going to make this successful. 8 So you're saying because Walgreens had already paid Theranos a hundred million dollars, and as we talked about earlier, that was not returnable to Walgreens, they already made that commitment, so it 12 wouldn't have made sense that Walgreens would want to slow down the expansion of the stores because they wouldn't be able to make that hundred million dollars 14 15 back? 16 Well, that's -- that's one reason. What Α

```
17 I'm -- there, I'm saying it's just simple logic and
18 math that tells you that's the case. However, there's
    also the contract where they're saying they're a
20 national partner and the enormous number of
    conversations that we had with (b)(6); (b)(7)(C)
21
                                                      where
22 they said, "We are all in. We want to roll this
   nationally," there -- there were constant dialogues
24 just all over the place.
25
          The reason I was talking about a hundred
0371
1
   million dollars is: Walgreens has -- had done a fair
   market value analysis on the services Walgreens was
   providing as part of Theranos services and -- under
   this contract. Which means, you know, they had a
   technician who was going to do the finger stick.
   Somebody had to check in the patient. The IT guys have
   to install the terminal. All of that stuff. They did
   a fair market analysis. And they told me it was --
   $9.65 was their cost of services. That meant only
10 $0.35. And if they were getting 10 bucks from us as
    part of the service, $0.35 was their profit.
11
12
          So in order to even break even on the hundred
13 million dollars innovation payment, you know, you can
14
    do the simple math, but my math is: We had to be not
    only in 1,600 stores, but much more -- many stores.
   And 10 patients at 1,600 stores would take them years
17
    to even break even. And assuming they're not making --
18 making any interest on that investment.
19
          So I can do the simple math for you if you
20 want, but it would be -- they -- they needed a large
21
    volume to be able to recover that investment.
22
          But why continue rolling out with new stores
23 if Walgreens wasn't breaking even, as you say, wasn't
24 making money because the patient traffic in stores
25 wasn't meeting the 10 to 15 patients?
0372
1
      A
          You're talking about in Arizona or in
2
   general ---
3
      Q
          In general.
4
          -- as a -- conceptually?
5
      Q
          Yes.
6
          Yeah. So it's highly likely that if, for
   instance, we didn't succeed, and let's say we went --
   went to California and New York, right, we opened a
   hundred stores or whatever. Right? Let's assume we
10
   only went to California, and Walgreens is not -- we are
    not being successful, then we go to them saying, "Go to
12 the next state." They may say, "No, we don't want to."
13 Fine. We would go work with somebody else like CVS.
14
          At that point Walgreens may not grow with us.
15 I don't think there was a commitment from them that
16
    we're guaranteeing you 2,000 stores, so --
17
          BY MR. KOLHATKAR:
18
          What was the patients per day number that
```

19 mattered from Theranos's perspective? I mean, it 20 wouldn't make sense from Theranos's perspective to offer services, you know, to a thousand stores if 22 you're only seeing two patients per day; right? 23 Yeah. Yeah. I mean, we had modeled that 24 in -- in the financial model to see what the break-even 25 would be, and those -- there were a lot of different 0373 1 assumptions as to how many -- how much money we were spending on the stores. Was it in the current model or the new model because the economics were changing between us and Walgreens. 5 So there were a lot of factors that -- that's the whole purpose of the model. That can you just 6 modulate some -- one and the other, and you'll see where the break-even happens, at what volume per store 9 per day per patients. 10 Also the requisitions, the revenue per 11 requisition, or per patient. Right? And revenue --12 Sorry -- and sorry. I've just -- seen that 13 term a couple of places. Did you always understand revenue per requisition to mean revenue per patient? 14 15 No. Requisition is different from patient. 16 Can you explain the difference. 17 Yes. A patient can bring two requisitions. 18 Let's say a doctor gave you a req., and you didn't go 19 to the lab because you didn't want to, and then some 20 other doctor said, "Get this test done." Now you have 21 two requisitions. Right? And you bring them to a 22 Walgreens store. Those are two requisitions. They may 23 be different tests, they may have similar tests, but 24 they're two requisitions even to one patient. 25 I guess was it common for a patient to bring 0374 in requisitions from multiple doctors? 1 2 A I don't know if it was common, but it did 3 happen. I don't know how common. I didn't track that. But yes, absolutely, it happened. 5 And how would that be tracked in the -- in 6 the patient per day metrics that -- that you were tracking with Walgreens? Would they be tracked as one 8 patient or two? A It would be tracked as one patient. That information didn't split that into requisitions. Because we were providing patients per day, not 11 12 requisitions. 13 In that situation, would you pay Walgreens 14 just one 10-dollar fee? 15 A Yes. Correct. 16 BY MS. CHAN: 17 Q Just looking back at the Exhibit 173. Sorry, 18 if you --19 A No worries. 20 -- can grab that back.

21 So if you'd just turn to the page with Bates 22 ending 214. 23 A Yes. 24 You'll see there is an average patients per 0 25 store per day. As of February 7th, 2014, it's .8. 0375 1 A Yes. 2 Do you see that? Q 3 A Yes. Q And as of May 1st, 2013, it's 3.1? 5 A Yes. 6 O Was that consistent with your understanding in May of 2014 as to the average patients per store per 8 day that you were seeing in stores --A Yeah. 9 Q -- for these days? 10 11 A If they're here, then chances are, they're 12 right. Because Walgreens had full visibility into this 13 data because obviously, they were checking people in. 14 So I would guess they are right. 15 Q Okay. And then with respect to the venous 16 draw percentages, as of February 7, 2014, it was 43 17 percent, and then May 1st, 2014, it's 39 percent. 18 Was that also consistent with your 19 understanding of percentage of venous draws that were 20 being performed at that time? A Yeah, venous draws. This is not finger 21 22 stick, yeah. So that seems reasonably consistent, 23 yeah. 24 Q Okay. Did either of these numbers change 25 significantly in 2014? 0376 A I think they -- they used to fluctuate over 1 2 time. They did change, yes. Q Okay. Did the percentage of venous draws 3 ever go above 50 percent? 5 A I don't remember top of my head, but at some point, they did, yes. 7 When? Q 8 A I don't recall the top of my head, but --9 And how do you know that? 10 A Because I just have a vague memory that our finger sticks and venipuncture fluctuated, and 50 percent, they -- you know, at some point they dropped. So I know for sure they went down. I just don't 14 remember when. Actually, you know, you asked me in 2014. 15 16 The answer to that is: I am not sure about 2014, but I have a memory that it did go down below 50 percent. 17 18 Q That venous draws went below --19 Sorry, venous draws went up. 20 O Venous draws went --21 A Above 50 -- 50 percent. 22 Or do you mean finger --

23 No. This one has venous draws here. So it 24 says 43 percent. That's -- actually, when you asked me 25 that question, this is why I did a double-take here. 0377 1 The venous draw percentage went up above 50 percent. That means finger sticks fell -- went down below 50 2 3 percent. 4 THE REPORTER: 15 or 50? 5 THE WITNESS: 5-0. 6 BY MR. KOLHATKAR: 7 Q What -- do you -- and you said you don't 8 think that happened in 2014 or --9 No, no, no. I'm saying I don't remember if 10 it happened in 2014 or not. I know it happened during this time. I just don't know when it happened. 12 BY MS. CHAN: 13 And do you know if the -- the average 14 patients per store per day ever changed in 2014? Did it 15 go up? 16 A I wouldn't be able to recall that because as 17 we got to 40 stores -- because the 10 or 20 stores were 18 new, so I don't remember what was the patient volume 19 initially in new stores. But I don't know if they --20 it changed or not. 21 BY MR. KOLHATKAR: 22 Q I'm going to hand you a document I'll mark as 23 Exhibit 245. 24 (SEC Exhibit No. 245 was 25 marked for identification.) 0378 1 BY MR. KOLHATKAR: 2 Q And just for the record, Exhibit 245 is a 3 multipage document Bates-stamped TS-1052342. 4 It's -- it's a long document. I don't need 5 you to review the whole thing, but generally, do you recognize what Exhibit 245 is? 6 A Yes. It seems like an e-mail from (b)(7)(C) to 7 me, and Elizabeth, and a bunch of other people. 9 And do you recall reviewing this e-mail on or 10 around May 14, 2014? 11 A I don't recall exactly, but it has my name on 12 it, so I probably looked at it. 13 Q If you just look on the first page of 245, 14 the e-mail from And it's sent to WAG 15 Daily Report. 16 A Uh-huh. Yes. 17 What is WAG Daily Report? 18 In Microsoft Exchange, you can create aliases and put a whole bunch of people under that alias. It's 20 like Twitter. So -- and then when you send an e-mail 21 to that alias, it goes to everybody who is on that distribution list. It's called a distribution list, 22 23 actually. 24 Q Do you know who was on this distribution

25 list? 0379

6

13

- 1 A It changed over time. I mean, I don't recall 2 exactly, but it seems likes I certainly was.
- Q Does it look like from the response that Ms.
  Holmes was? It looks like she's responding, asking for
  some additional information to be put on these reports.

Do you see that?

- A Yeah. So she either was on it or somehow she got the e-mail and she responded to it.
- 9 Q Did -- did Ms. Holmes keep track of -- of 10 this venous versus finger stick percentage that 11 customers were experiencing at Walgreens?
- 12 A No.
  - Q How do you know?
- A We didn't have many conversations about it.
  We had a few. And anytime she needed the number or
  detail, she would always reach out to me saying, "Can
  you give me an update of what's going on." And I would
  give her an update and I would explain to her what in
  detail was going on. But it was not a frequent
  occurrence, which led me to believe she's not tracking
  it.

## BY MS. CHAN:

Q Was Ms. Holmes ever -- was she ever aware that Walgreens thought it was important to reduce the venous draw percentage?

0380

2

22

- 1 A At what -- what time?
  - Q In 2014.
- A I don't know if I communicated that to her or 4 not. I mean, she knew in general that before summer 5 of -- like I mentioned earlier, that our model was that 6 we will, you know, scale with Walgreens only around 7 finger stick tests.

8 So in that regard at that point, it was
9 important, but I was not -- actually, not briefing her
10 on the operational details or even had Walgreens
11 conversations because that would double the time that I
12 had to spend on the same project, so I was not doing
13 that that often.

- 14 Q And do you know if she was aware of the fact 15 that Walgreens thought that patients per store per day, 16 that metric, was important to them?
- A It was important to everybody in general because that's what's -- that was our business. But again specifically if Walgreens had asked me if it was important or not, I don't know. And the reason for that is: A lot of the reasons why we were not seeing the patients per day was because of Walgreens'
- 23 execution. So they couldn't complain to us too much
- about patients per day because they were the roadblock
   on many of those reasons why we were at a low -- low

patient count. 1 2 O So are you saying that she wouldn't have been 3 aware that that was important to Walgreens? 4 She may have been aware it was important to 5 Walgreens, but then she was also aware because I told 6 her that these are the reasons why we are slow, and 7 those reasons were Walgreens. 8 So it is possible. And the reason why we 9 didn't talk too much about this topic was: She assumed 10 that at some point, Walgreens was going to get their act together and fix these issues so we could scale it. 12 But that would be my guess. I didn't talk to her about 13 that. 14 BY MR. KOLHATKAR: 15 You can put that document aside. In 2014, were you generally familiar with 16 something that's called the Walgreens' Well Experience? 17 18 I recall the name, yes. 19 O What was your understanding of Walgreens' 20 Well Experience in 2014? 21 Walgreens had started this project where they 22 were going to try to make Walgreens stores better, look better for patients' experience. And so they were doing construction in a lot of stores. 25 And so, for example, (b)(6); (b)(7)(C) 0382 1 (b)(6); (b)(7)(C) had a vision of turning 2 Walgreens into a healthcare company away from their current business, which is, you know, alcohol, tobacco, and candies, and sugar, and this and that. And he 5 really wanted Walgreens to be -- just like Starbucks is the third location between home and office, let's say he wanted Walgreens to be the third location between your doctor and your home. So people could come there. 9 So he was building these Well Experience 10 format stores where they could provide more healthcare services. And as -- part of that would have been a 11 12 space dedicated to Theranos -- as we scaled the gold 13 and silver locations was part of that. 14 And was it your understanding that Theranos 15 would be part of all Well Experience stores, or just 16 that in the process of building out the Well Experience 17 stores, some would be selected for -- for Theranos 18 Wellness Centers? 19 A It won't -- my understanding at that time 20 was: It wasn't necessarily all because we didn't have 21 to be in all stores in a geography to begin with. I mean, they have 8,000 stores. We didn't think we had to be in 8,000 stores. And if you go to New York Times

24 Square, they had like, seven Duane Reades. If you're 25 in just one, you can see the others. Right? So we

So I would -- I would say not all 2,000, but

1 didn't have to be at all seven Duane Reades.

0383

in general, those stores were picked to be a Well 4 Experience store for a reason. Because they were 5 either more profitable, they had a better clientele. So the assumption was: Those reasons are good enough 7 reasons for whatever other services Walgreens intended 8 to offer. They were thinking about growing their clinic business, the healthcare clinic. 10 Walgreens had a -- I don't know if you know, 11 Walgreens had an urgent care clinic business. They had 12 about 400, 500 locations. And CVS now has about 1,500. 13 So CVS ran with that business and Walgreens, I think, 14 slowly shut it down because they didn't succeed. 15 But that -- those stores were meant for 16 healthcare services, and my expectation and understanding was from many conversations with Walgreens that those were the gold and silver, 19 quote/unquote, locations. 20 Q I'm going to hand you a document that's 21 previously been marked as Exhibit 176. 22 And again, without reviewing the whole thing, 23 do you generally recognize this document? 24 A Yes, I do. 25 O What is it? 0384 1 A This is a meeting minutes from a meeting that we had had with Walgreens. I cannot tell where we had it, but seems like a meeting minutes. And was it -- what were these partnership 4 5 meetings? 6 A Where? 7 What were they? Q 8 They changed over time depending on the participants. I would attend when I could. When I --10 when I did, then the subject would -- matter would be more strategic also, not just operational details. But 12 there were many that I didn't attend, and then in that 13 case, they would be mostly operational in nature. 14 Q And did you receive this document on or 15 around August 11, 2013? 16 Yeah, it seems like it. That's the -- my 17 name is on the e-mail, I think. Yes, it is there. 18 And was it your general practice to review 19 these minutes after these meetings? 20 A No. 21 Q Did anyone at Theranos take a look at these 22 after the meetings? I never asked anybody, but I wouldn't be 23 24 surprised if (b)(6); (b)(7)(C) who basically 25 ran these meetings for me when I was in Arizona, would 0385 1 review them to make sure they're accurate and include 2 some of our grievances. 3 If you take a look at the last page of the

document. It's Bates stamp ending in 54644. Looks

- like -- and this is all under the heading -- sorry. If you look at the page before, it's all under the heading
- 7 Plan For Fiscal Year '15.
- 8 A Yes. Right.
- 9 There's a bullet point that says, "Initial
- 10 goal for Fiscal Year '15 Sept-Aug was 500 stores. Need
- to redefine this goal."
- 12 A Correct.
- 13 O And then there's -- there's sort of a chart
- 14 down below where it shows Well Experience stores in
- 15 2015 and Theranos stores in 2015.
- 16 A Actually, sorry for interrupting you. The
- 17 next line is also important here. It says, "Initial
- goal for Fiscal '15 was 500," and that's the slide that
- you showed me earlier, and this is probably the memory
- 20 that I have. She says, "Need to redefine this goal.
- Nationwide 2,000 to 2,500 stores" is -- is -- is her
- 22 comment. So that was my understanding from the
- 23 meeting.
- 24 And what is the 25 to 35 MSAs? O
- 25 Metropolitan service areas.
- 0386
- 1 So you were at this meeting. Your
- recollection from this meeting in August 2014 was that
- Walgreens wanted to define up the -- its target for
- 4 expansion in -- in Fiscal Year 2015?
- 5 Yeah. Actually, the -- another key reason
- 6 for that was the -- around the same time frame,
- 7 had visited us I think July or August
- time frame. I may have mentioned that earlier. And he
- actually wanted to see if we could be in 4,000 stores. 9 10
  - O In 2015?
- 11 Yes. And -- because they said, "We have
- 12 experience rolling services out." They -- he used to
- talk very proudly about their vaccination services,
- about how they train people and within, I don't know
- 15 how many, a year or so, they would roll this thing out
- 16 nationwide.
- 17 So they thought they could do it. They had
- 18 enough training skills. And if we committed to that,
- 19 we can do it. And I said, "You know, I don't think we
- 20 will be ready before because there's a lot of work we
- 21 have to do." And we were also familiar with the
- performance of Walgreens' technicians, which was not
- 23 ideal. So we didn't want to pursue that.
- 24 So as of August 2014 or mid-August 2014, what
- 25 was your view of the number of stores you felt 0387
- 1 comfortable with projecting for the next year?
- 2 A I wouldn't remember, but it would be in one
- 3 of the models that I have. So if I -- you know, I
- probably had a model that was time-stamped around the
- 5 September, August time frame, and I probably would have
- included the number there.

7	BY MS. CHAN:
8	Q Did you say (b)(6); (b)(7)(C) or
9	A (b)(6); (b)(7)(C)
10	Q Yeah.
11	A (b)(6); (b)(7)(C)   Yeah
12	Q Oh, (b)(6); (b)(7)(C)
13	A And
14	Q(b)(6); (b)(7)(C)
15	A Yeah. And he had visited us with (b)(6); (b)(7)(C)
16	(b)(6); (b)(7)(C) So they
17	had visited us to have the conversation.
18	BY MR. KOLHATKAR:
19	Q And it's your memory that they communicated
20	at the time that they wanted to expand beyond 2,000
21	stores?
22	A Yes. He actually, I think, may even had used
23	
24	brain, so I remember 4,000. But yes, he mentioned can
25	we roll it out nationally, like 4,000 stores, and be in
038	
1	every 24-hour store. He told me they have 1,600
2	24-hour pharmacies. So he said, "That's easy. You can
3	do that because we already have staff."
4	BY MS. CHAN:
5	Q And when was that meeting?
6	A I think it was the same time, around July,
7	August. I may be off by a month or so, but summer of
8	2014, about this time frame.
9	Q When did (b)(6); (b)(7)(C) leave the company?
10 11	A I believe October of 2014.
12	Q And so you were in terms of your main
13	contact at Walgreens, was was it still (b)(6), (b)(7)(C) during this time frame?
14	A He was not our main contact. I mean, we
15	like I mentioned, there were a bunch of other people.
16	He was a busy guy, so he couldn't serve as a main
17	contact. He was one of the main contacts. But during
18	this time, $ b\rangle(6)$ ; $(b)(7)(C)$ had direct access to $ b\rangle(6)$ ; $(b)(7)(C)$
19	(b)(6); (b)(7)(C) so he was a contact. But
20	there were other people we could talk to. And
21	obviously, we could have reached out to him if we
22	wanted, but I wouldn't say he was the main contact.
23	BY MR. KOLHATKAR:
24	Q Around the time that you heard this desire to
25	expand, and and your memory thinks that this
038	
1	partnership meeting involved expanding to to a
2	higher goal for a Theranos rollout, did did (b)(7)(c)
	ever express concerns to you about expansion
4	beyond Arizona?
5	A No. No. Because (b)(6); (b)(7)(C) was a champion
6	of rolling it out as fast. And he used to say, "If you
7	think 40 is difficult, wait until we are in 5,000" or
8	"4,000" or a big number, like nationwide. So no,

- 9 he -- Walgreens prided themselves at being an execution 10 machine. We just needed to get our stuff ready. Walgreens can roll it out over night. I mean, I'm 12 paraphrasing here, but they had very high confidence. 13 MR. KOLHATKAR: Okay. Go ahead. 14 BY MS. CHAN: 15 So if you're looking back at, you know, the 16 page with Bates number ending 54644, there's this table 17 that's under the bullet point that we were just talking 18 about --19 A Right. 20 Q -- that's got 2015, 2016, 2017. And it's got 21 Well Experience of 2,000 for 2015, 2,000 for 2016, and 22 a 2,500 for 2017? 23 A Right. 24 Q Then it's got Theranos underneath? 25 A Yes. 0390 And 200 for 2015. 1 O 2 Right. 3 800 for 2016 and eight -- 800 for 2017. 4 What was your understanding as to what this 5 table was portraying? 6 Yeah. If you go back to the discussion we had about the gold and silver stores, the gold stores 7 are marked as Theranos-only places dedicated to Theranos with an attached bathroom. The silver spaces 10 were developing stores. They -- these -- some stores 11 in some cases had an attached bathroom. I would say 12 most cases, it didn't, but it was possible to build a 13 bathroom. We needed a bathroom for lab services. 14 Sorry, I should have made that clear. 15 So Well Experience is what was, in my memory, 16 constituted as silver stores. And I think they had 17 sent me a few e-mails which explained what a gold and silver would look like and which would confirm this. 19 But gold was a dedicated Theranos space like you see 20 here. 21 So your understanding is that these numbers 22 represent the number of gold-level stores that Theranos 23 would be rolling out in? 24 A These would be Theranos-only stores. Now, I 25 don't know if they meant that these are rolling out or 0391 1 they're building out. I cannot tell. 2 But the -- the point I was making earlier was that when we met in this meeting and I remembered the 2,000 number was: We talked about in this meeting that we need to roll out because this is an order from the 5 executives that we need to roll out faster. Like I 6 visited us with (b)(6); (b)(7)(C) said, (b)(6); (b)(7)(C) 7 and 8 talked about even bigger numbers. 9 So I didn't read this document then, but in
- 10 looking at it now, it's consistent with the

```
11 conversation we had. That when it says "Theranos,"
12 those are gold spaces. That means Theranos-only spaces
13 because Well Experience, we were sharing with other
14 services.
15
          Now, they were not really performing other
16 services, so it was kind of exclusive to us, but Well
17 Experience was mostly a shared space. In some cases,
18 it was a small room, in some cases you could actually
19 see -- some of the Well Experience stores, I think in
20 San Francisco, where they have a sliding door. And you
   do all the patient check-in. All the patients wait
22
   outside the door, and then one at a time, you take the
23 patient in and perform the service. And we actually
24 had some Well Experience stores in Arizona that we were
25 using already.
0392
1
         MR. KOLHATKAR: Mr. Balwani, we're almost out
   of time on the tape, and I promised at 6:00 to end for
   the day. So I think those are all the questions we
   have for you today. And we appreciate your time today
5
   and we look forward to resuming tomorrow. So thank you
   for your time.
6
7
         We're off the record at 5:59 p.m.
         THE VIDEOGRAPHER: Off the record 5:59.
8
         (Whereupon, at 5:59 p.m., the examination was
9
10
   concluded.)
                 * * * * *
11
12
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17
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21
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24
25
0393
1
            PROOFREADER'S CERTIFICATE
2
3
   In The Matter of: THERANOS, INC.
   Witness:
                   Ramesh "Sunny" Balwani
5 File Number:
                     SF-04030-A
                 Wednesday, August 9, 2017
6 Date:
                   San Francisco, CA
7 Location:
         This is to certify that I, (b)(6); (b)(7)(C)
8
   (the undersigned), do hereby swear and affirm that the
   attached proceedings before the U.S. Securities and
    Exchange Commission were held according to the record
    and that this is the original, complete, true and
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accurate transcript that has been compared to the	
reporting or recording ac	ecomplished at the hearing.
(Proofreader's Name)	(Date)
×	32

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0395
1 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
2
3
   In the Matter of:
                   ) File No. SF-04030-A
5 THERANOS, INC.
6
7 WITNESS: Ramesh "Sunny" Balwani
8 PAGES: 395 through 768
9 PLACE: Securities and Exchange Commission
         44 Montgomery Street
10
         Suite 2800
11
12
         San Francisco, CA
13 DATE:
            Thursday, August 10, 2017
14
15
16
      The above-entitled matter came on for hearing,
17 pursuant to notice, at 9:05 a.m.
18
19
20
21
22
23
24
        Diversified Reporting Services, Inc.
25
              (202) 467-9200
0396
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0397
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12 Also Present:
13
      (b)(6); (b)(7)(C)
                 Videographer
14
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1	PROCEEDINGS
2	Whereupon,
3	RAMESH "SUNNY" BALWANI
4	was called as a witness and, having been previously
5 6	duly sworn, was examined and testified further as follows:
7	THE VIDEOGRAPHER: Rolling.
8	MR. KOLHATKAR: We are on the record at
9	9:05 a.m. This is the second day of Mr. Balwani's
10	testimony.
11	MR. KOLHATKAR: Mr. Balwani, do you
12	understand that you're still under oath?
13	THE WITNESS: I do.
14	MR. KOLHATKAR: Just for the sake of the
15	record, would counsel enter their appearances again.
16	MR. COOPERSMITH: Yes. Jeff Coopersmith from Davis Wright Tremaine, representing Mr. Balwani. With
17 18	me again are John McKay, Kelly Gorton, and Jim Topinka,
19	also for the for Mr. Balwani.
20	EXAMINATION
21	BY MR. KOLHATKAR:
22	Q And, Mr. Balwani, since we adjourned your
23	testimony yesterday evening to to this morning, you
24	haven't had any substantive conversations with the SEC
25	staff; is that correct?
040	
2	A That's correct.  Q So when we when we left off yesterday, we
3	were talking about the Theranos's relationship with
4	Walgreens. And I want to sort of continue on that
- Alle	

```
topic a little more --
6
      A
           Sure.
7
          -- at this point if that's okay.
8
          I'll hand you a document that's been
   previously marked as Exhibit 179.
10
          THE WITNESS: (Witness reviewing document.)
11
          Okay.
12
          BY MR. KOLHATKAR:
13
          Do you recognize Exhibit 179?
14
          I do.
       A
15
       O
           What is it?
16
           It's an e-mail from (b)(6); (b)(7)(C)
17 myself and (b)(6); (b)(7)(C)
18 (b)(6); (b)(7)(C)
    Walgreens.
19
20
           And do you see the sentence that begins "Two
21
   areas which must be focused on are patients per day
    with a four-plus experience"?
23
       A
           Yes.
24
       O
           "And venous percentage in the 10 percent
25 range"?
0402
1
      A
           Yes.
2
           What is a four-plus experience?
3
           We used to have an app, it was a survey app,
4
   where when the patients were leaving our store, we
   would ask them "How was your experience?" And we would
   give them the app. And on the app, they would tell us
   how things are going. So they would get to rate the
   checkout and check-in process, the finger stick
   process, finding the location process on the scale from
10 1 to 5.
11
          And so this -- this was an iPad app, and we
12 had, I think, tens of thousands of people who used the
13
    app rated our service. And so that's what it was.
14
          Was it your understanding here what he's
15 telling you is that -- that the companies need to focus
16
    on improving the patient experience and the venous draw
17
    percentage?
18
       A
          That's what he's saying here.
19
           And did you understand -- the -- the next
20
    line down says, "We need to have a documented detailed
21
    plan on both or it will be difficult for me to convince
22
    expansion beyond AZ."
23
          Do you see that?
24
          I see that.
25
           In August 2014, did (b)(6); (b)(7)(C)
                                            communicate
0403
1
   to you that it would be challenging to expand Theranos
2
   services beyond Arizona?
3
          No, he did not. It was also not by 700
  (b)(6); (b)(7)(C) call. (b)(6); (b)(7)(C)
4
   (b)(6); (b)(7)(C)
5
6
```

Did he ever express concerns about convincing more senior management to expand beyond Arizona? 9 This is what he's saying in this e-mail, but 10 like I said, if there were any concerns about expanding 11 beyond Arizona, they would have been discussed at my 12 level with his senior executives. So the CFO at that 13 time, CEO at that time, and a lot of other people. 14 More importantly, this is also at the same 15 time, maybe a day or two before or after, the document 16 that we got from Walgreens that you showed me yesterday that showed, you know, a plan for 500 has to be revised 17 18 to 2,000 or whatever stores. 19 So he's -- I don't know what he means by 20 that, but this was not his call whether Walgreens is 21 going to expand beyond 40 stores or not. 22 Q Did he ever, in the -- in August, or 23 September, or October of 2014, did (b)(6); (b)(7)(C) provide you with the impression that Walgreens was not 25 going to roll out to additional stores beyond the 41 0404 1 that -- that were currently open? 2 A No. Let me actually give you more 3 information there. In the month of September of 2014, Walgreens' world shifted very significantly. In -- I think it was September or October, in that time frame, Walgreens discovered a 1.1 billion accounting error, 6 7 and the entire company went in a panic mode. 8 They -- at that -- in October, we had 9 conversations where he said, "Look, every project is 10 being reevaluated because we need to dig ourselves out of this billion-dollar error. We need to save costs. 11 12 I won't even be able to travel for our meetings anymore. We have to" -- "need to do travels on tele" --13 14 "videoconferencing." 15 So in October, things changed. In October, 16 we started talking about, "Look, if you are not going to build out the gold stores, Theranos can do it in 17 18 good faith." And we started negotiating with them and 19 started the process of saying, "Look, we can take over 20 a lot more responsibility that you originally had 21 anticipated you will be doing, but we need to modify 22 the terms of the contract." 23 So that conversation started in October, but 24 it was not in August. 25 And so -- and is that the conversation that 0405 1 ultimately led to a discussion of a rental model in the 2 Walgreens? 3 A Correct. 4 And when in October do you think that began? 5 I don't remember the exact date, but I think it was around early or mid-October. But I believe that 7 in November, again we met with the Walgreens executives. I explained to them, "Look, we can take

over more responsibility. That's not a problem. We 10 just want to grow faster." 11 And they said, "We love that idea." They 12 didn't want to spend money on build-outs. 13 And then I think in early December, either 14 the Walgreens executive visited us or maybe around 15 November, I got an e-mail from his boss, the senior 16 executive, who were the decision -- decision-makers, not (b)(6); (b)(7)(C) that they had spoken with (b)(6); (b)(7)(C) 17 18 (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) 19 And I believe he said he had spoken to (b)(6); (b)(7)(C) 20 21 (b)(6); (b)(7)(C) And 22 he may also have said that he also spoke with (b)(6); (b)(6); (b)(7)(C) 23 24 So he sent an e-mail saying, "I've discussed 25 this model. Great model. We should" -- "we should 0406 1 move forward on that." 2 Q And, I guess, what would the -- you -- you said this -- remind me of the time frame you were discussing for that. 5 Yeah. October would have been after the accounting error was discovered. He -- (b)(6); (b)(7)(C) said, "We won't be able to make investments, but we 7 love this business. We want to grow with you. But we won't be able to make the kind of investments that we 10 had anticipated we will do because of this accounting error." 11 12 So I said, "That's okay. We can take more 13 responsibility. We will have to change the economics, of course." 14 15 But -- and they said, "You know, we want your 16 service in our stores. We love your service in our stores." 17 18 As a matter of fact -- that was in October, 19 sorry, to answer your question. 20 Q And then you had a meeting with -- with the 21 senior executives, you said, in November? 22 I think it was in November. And I believe in early December, their top brass has -- had visited us. 24 I may be off by a month or so, but about that time 25 frame. 0407 1 Q I'm just trying to get your best memory. 2 Yeah. A 3 The -- so this move for the rental model, was that -- was that something that was going to -- that 5 would require more up-front costs for Theranos; is that 6 right? 7 Well, we were negotiating that. It may have required some up-front costs, but it could have also 9 been because we were going to pay rent to Walgreens.

10 One of the points we were discussing was: Walgreens

was still going to build it out, but we would include that in the rent and we were going to lease the space 13 for eight or ten years. 14 So that part was not confirmed or decided. 15 We were still negotiating that piece. 16 Q And was the rental model -- were the discussions around the -- that rental model also going 17 18 to include a change in the per-patient fee? 19 Given to Walgreens, yes. 20 And what would -- what would -- what would 21 the change be? 22 A You know, I think it was either \$4 per patient or \$6 per patient. I don't remember the exact 24 number. Either it was \$6 per square foot rent and \$4 per patient or it was \$4 square -- per square foot, \$6. 0408 1 But it was some combination of those two. 2 So we were going to give them a lease like a 3 landlord, but then there were still some services Walgreens' technicians -- Walgreens' staff still needed 5 to provide. And that \$4 or \$6 was the fair market value of those services. 6 7 So was it your understanding that Theranos 8 didn't roll out to more than 41 Walgreens store because 9 of this shift in management at Walgreens? 10 It was -- it was -- I think it was -- at that 11 time we thought it was a slow-down because, yes, there 12 was a monumental shift happening at Walgreens, but --13 and we also, quite honestly, thought this was a great 14 opportunity to negotiate the contract because if we had 15 more control over our spaces, we could maintain our branding. One of the things that we were unhappy about was the patient experience. 17 18 And this gave us the best of both worlds. We 19 would still be at Walgreens. We would still be able to take advantage of all the reasons why we went to 21 Walgreens. But now we have our own space, our own 22 brand, our own patients. So it was a good trade-off 23 for us. 24 BY MS. CHAN: 25 You mentioned there was a conversation with 0409 (b)(6); (b)(7)(C) 1 2 Yes. Α 3 -- that you had? Who -- who was (b)(6); (b)(7)(C) 4 at the 5 time? I think that e-mail came to me from (b)(6); (b)(7)(C) 6 or it may have been from (b)(6); (b)(7)(C) 7 (b)(6); (b)(7)(C) 8 sorry. 9 (b)(6); (b)(7)(C Q 10 Yeah. His name is (b)(6) A 11 So it may have been one of those two people, but I think the

```
e-mail was November or December of 2014. I'm pretty
14 sure it was those months, Q3 -- Q4 of 2014.
15
          BY MR. KOLHATKAR:
16
           So -- so throughout this time period, you
17
   know, while you were discussing the Walgreens
18
    relationship with senior executives, with more of the
19
    operational folks, were -- were you also keeping track
20
    of the -- the venous draw percentages that -- that
21
    Theranos and Walgreens were discussing?
22
       A I must have been. I mean, that was one of
   the regular things that I would -- I would track, yes.
23
24
       Q And do you recall Theranos improving
25 significantly in terms of the percentage of offering in
0410
1
   finger stick versus venous in that time frame?
2
          Do you mean the tests, or the visits, or
3
   either?
4
      Q
          The -- well, for --
5
      Α
          Yeah.
6
      O
          -- for -- for the patients.
7
          Yeah. So no, I don't think the number of
   percentages in -- for finger stick improved
   significantly, or may -- it may even have gone down.
    But like I said yesterday that at that point, once we
    knew we were taking over as the landlord, our focus on
11
12
    chasing an arrangement that we knew we were replacing
13
    got downgraded, which would have been add more finger
14 sticks to our menu. Because we had learned now that
15 finger stick is a great differentiator. And it was
    still in the future, so we were not shying away from
16
17
   it, but other things were more important at that point.
18
          For example, if you were going to work with
19
    Walgreens in this new capacity, there was this new
    workload, a new project that was going to be on our
21
    shoulders, which was construction and planning about
22
   the stores, and finding locations, and so on and so
23
    forth. So there was more work coming our way.
24
          So yes, I was still tracking finger sticks,
25 but that equation was changing, our relationship was
0411
1
   changing with Walgreens.
2
         BY MS. CHAN:
3
      O And would all of that -- you know, the
   construction that you were just mentioning and being
   able to roll out, would that have slowed down the pace,
   then, of Theranos's roll out of services in Walgreens
7
   stores?
8
      A You know, if -- in the short term, it may
   have had impacted. I don't know. When we met with the
   Walgreens executives I think in December and again in
11
    January, this was a very important project for them.
    They didn't want to lose it because they were -- the
12
13
    reason we met with them and they all came -- except for
                          (b)(6); (b)(7)(C)
                                        came, (b)(6); (b)(7)(C)
14
```

16 (b)(6); (b)(7)(C) 17 18 19 (b)(6); (b)(7)(C)   came to discuss this	15	(b)(6); (b)(7)(C) came. (b)(6); (b)(7)(C)
arrangement. And they made a commitment saying, "Lool don't think of this as our disinterest in what you guys are doing. We still love what you're doing and we still want the exclusivity. We still don't want you to go to CVS. It's just that we cannot make those commitments in construction. So your idea of you outled of you outled and we will get the contract done within 30 days."  So yes, there was a risk that it may have had slowed things down, and unfortunately obviously, in reality, it did, but, you know, it was not it may have been the short term, but I think I thought in the long term, we would have more control over how fast we could grow, longer term.  Q And this meeting that took place, was that in December of 2014?  A I think it was in December of 2014 or early January of 2015. I remember it was cold weather for the Bay Area and it was around Christmastime. So it may have been the reason I remember it being around that time was: Because this was very important for them, and for these guys, in their peak holiday season, which is busy season for Walgreens, for all five to find time at the same time, or six, to come visit us in Palo Alto instead of asking us to come was a big gesture, big, big deal.  Actually, if I may add a few more things, it was that even all the way through summer of 2015, even now things were absolutely slowing down, the overall long-term plan at Walgreens was still not changing work for me directly. And they had offered to come and help me build the operations organization and scale this business, as we scaled with Walgreens, other retailers.  And big to the participants who were in that meeting who were actually my counterparts at Walgreens, actually sent me a long e-mail with his resume attached. So they wanted to come work for me and be the point people rolling this project out.  BY MR. KOLHATKAR:  Q So I guess in October 2014, did you have did you have an expectation that Walgreens was going to		1971 / Cymra 1960 / 1971
18		
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<ul> <li>project out.</li> <li>BY MR. KOLHATKAR:</li> <li>Q So I guess in October 2014, did you have</li> <li>did you have an expectation that Walgreens was going to</li> </ul>		
BY MR. KOLHATKAR:  Q So I guess in October 2014, did you have  did you have an expectation that Walgreens was going to		- and give symmetry (not such that are made in the control of the control of the control of the control of the
14 Q So I guess in October 2014, did you have 15 did you have an expectation that Walgreens was going to		
15 did you have an expectation that Walgreens was going to		

- 17 I had a strong understanding that absolutely, 18 they will. They slowed down. We were modifying the arrangements, but I had absolutely no reason to believe 20 that the overall project is not going to get rolled 21 out. 22 Q My -- my -- my question is specifically did
- 23 you think in October of 2014 that -- that Walgreens was 24 going to open more Theranos Wellness Centers in 2014?
- 25 A I don't remember. Our expectation was -- and 0414
- 1 actually -- I actually think we were planning to -- we
- had given them a list of additional stores we wanted to
- open. But like I said, in September there was a change
- 4 to it. So I don't remember if they -- if that list
- went to them, we e-mailed them what the stores we 5
- wanted -- I actually think we did. We had a
- conversation with them. We gave them the list of stores 7
- that we wanted to open, and we were talking about those

9 stores.

- But no, I did not get an inclination from them that they were not going to open any stores. 11
- 12 I guess, how would the process work when --13 when Walgreens would open a Theranos location? I mean, so, you know, you went from 11 to 41; right?
- 15 Α Right.
- 16 How would -- how would Theranos be informed Q about potential stores and how -- how would the site 17 18 selection process work in that time frame?
- 19 Well, the first 40 stores, Walgreens picked, 20 as I shared with you yesterday. But we wanted to make 21 sure the next -- that doesn't happen with the next set 22 of stores.
- 23 So we -- based on the data that we had and 24 based in the -- based on the data that we got from 25 Walgreens -- I shared with you the spreadsheet they 0415
- 1 sent us. I forgot what time frame -- but we had enough data from Walgreens that told us which stores in 3 Arizona are good.
- 4 So our team started compiling the stores that we thought we wanted to be in. There were some contracts with Medicaid we were going to lose if we did 6 7 not have statewide coverage. So I believe we actually picked stores that we wanted to be in, in Tucson, Flagstaff, and a few other places in Arizona so we can 10 have the statewide footprint so we can bid for 11 Medicaid.
- 12 So it may have been -- I actually don't 13 remember exactly, but I would say it may have been that 14 we took a more aggressive approach on what the next 15 stores that we wanted to be.
- 16 Q Did Walgreens ever -- in October 2014, did 17 anyone at Walgreens express an affirmative commitment 18 that they would open additional Theranos stores in

```
19 2014?
20
       A I mean, I -- I don't think anybody said
21 explicitly, but my understanding was: Because we had
22 the contract in place and our deal was that we are
    growing nationally, then, yes, my expectation was:
24 They we will grow. Nobody explicitly told me "Yes, in
25 the month of November, we're opening five," or "In the
0416
1 month of December, we're opening five." That
   month-by-month plan, we had not laid out. But my
   expectation was: We will continue to grow and we're
   going to continue to grow nationally.
5
      O Okay. So just -- so just so I understand
   your answer there, no one at Walgreens explicitly told
   you that specific stores would roll out -- let me
   rephrase that.
9
         In October of 2014, no one -- no one from
10 Walgreens gave you sort of a month-by-month rollout
11
   plan for the rest of the year; is that --
12
       Α
          That's correct.
13
       Q -- fair?
14
       A Or that's my recollection.
15
          BY MS. CHAN:
16
       Q When was the last store opened out of the 41
17 stores?
18
       A I think it was end of August.
19
       Q End of August 2014?
20
       A Yes.
21
       Q Would September 2014, would that surprise you
22 if that was when the 41st store --
23
       A Yeah, it's possible. I may be off by a week
24 or two. Yeah. Yeah.
25
       Q Okay.
0417
1
         BY MR. KOLHATKAR:
2
      Q I'm going to hand you a document that's been
3
   previously marked as Exhibit 221. Sorry, it's large.
4
         I'm not going to ask you to review this
5
   entire document, Mr. Balwani, but I'll just represent
   to you that Exhibit 221 is a document that represents
   text messages between -- or messages between yourself
7
   and Ms. Holmes --
8
9
      A Uh-huh.
10
       Q -- produced by Theranos from her -- from her
11
   Theranos-issued phone.
12
       A Uh-huh. Yes, sorry. Didn't mean to say
13
   "uh-huh."
14
       Q And if you turn to the page ending in
15 1036392.
16
       A Okay. I have it.
17
          I mean, just -- I mean, do you understand the
   general format of what this spreadsheet represents?
    It's got a date and time, the content of the message,
19
   and the -- the recipients, and to/from information?
```

- 21 Yes, I see that. 22 If you -- if you look about the fifth line 23 down, do you see an SMS message from sunnybalwani 24 mac.com to Elizabeth Holmes saying, "We can't scale 25 with WAG"? 0418 1 A Page 392? 2 O 292. 3 A Oh, sorry. Okay. I see that. 5 Q And do you see it's dated November 19, 2014? 6 A I do. 7 And did you send Ms. Holmes this message? Q 8 A Yes. That's my -- my e-mail address. 9 And you go on to say, "They are terrible and 10 we need SWY and CVS"; is that right? A Yes. That's Safeway and CVS. 11 12 And if you look a little further down, 13 there's a message from you time-stamped 5:09:5.57? 14 A I see that. 15 It says, "They told" -- "They told" -- I Q 16 guess it looks like "our team in WAG meeting that they don't intend to open more PSCs until July because we 18 missed their IT integration deadline"? 19 A I see that. Do you recall that meeting? 20 Q 21 A I don't recall that meeting, but it seems 22 like that's my text message. 23 Q Did you have a belief in -- in November 2014 24 that -- that Walgreens wasn't going to expand until 25 July? 0419 A No, I did not. 1 2 Why not? 3 A First of all -- there are many reasons here. 4 First of all, this one points to a team meeting where some IT guy said they cannot do IT integration.
- 6 Walgreens' IT, in my opinion, was like dealing with the
- 7 Soviet Union. If it didn't -- if something didn't make
- 8 part of their five-year plan, you had to wait for the
- 9 next five years to -- for that to happen.
- So just because somebody from IT said something is not possible, I had dealt with Walgreens'
- 12 IT for -- since 2010. They couldn't even install a
- 13 printer, but we still were -- managed -- able to
- 14 launch. When we launched in the 41 Walgreens stores,
- 15 they couldn't give us Internet connectivity and we put
- 16 our own DSR routers in Walgreens store.
- So somebody from IT saying something cannot be done from Walgreens' IT literally meant absolutely nothing.
- 20 Q Why did you say, "We can't scale with WAG"?
- A Because I had a lot of frustrations with WAG
- 22 that I used to communicate to WAG all the time. I

```
23 mean, in my meetings. I sent a long e-mail in 2015 to
24 their CEOs -- to their president and others. So their
25 quality was not good because we were constantly
0420
1
   fighting a battle in making sure that people get
2
   trained.
3
         So I had frustrations with Walgreens, and
4
   this is what -- what I was expressing in this text
5
   message.
6
      Q I guess, how did your frustrations relate to
7
   Theranos's ability to scale?
8
      A I don't think we had issues that were -- on
9
   our side on inability to scale. We could have scaled
10
   to more stores, but --
11
          I mean, you know, to me, it looks like you're
12
   telling -- this message could -- could be read to say
13
    that you don't believe that you can scale with
    Walgreens. Is that -- is that a fair reading of that?
15
       A No. I mean, this is a text message. If an
16 important business decision like that was going to be
    communicated to (b)(6); (b)(7)(C)
                                their company and the board,
17
   I would have taken a more formal approach. This is
18
19
   just me expressing my frustration after probably
20
    having interfaced with Walgreens' IT guys, which I
21
    really didn't like interfacing with.
22
          BY MS. CHAN:
23
       Q So if you didn't believe that they actually
24 didn't want to scale with you guys and wouldn't be
    opening any more patient service centers until July,
0421
1 why did you even write this to Elizabeth?
2
      A No, I was informing her that somebody from
   Walgreens' IT made the stupid comment of our team.
   Now, it demoralized our team. So it was worth sharing
5
   with Elizabeth so that if she interfaced with Walgreens
6
                    she could remember this data point so
7
   she can talk to them about it. So it was worth sharing
8
   our frustrations.
9
         And I often used to bubble my frustrations
10 with Walgreens to Elizabeth because she used to talk to
11 (b)(6); (b)(7)(C)
                      and she would say -- they would ask
12 her how things are going. And she would tell them, you
13 know, we need better chairs. Our check-in process is
14
   not good. So there are other things we were
15 communicating.
16
          I mean, this was, you know, a big change for
17
    these guys to work with an independent company like us,
18
    so we always had frustrations with them.
19
           So earlier, you said that you didn't recall
20 this meeting. Are you recalling that meeting now?
21
       A No, no, I don't recall -- I don't think I
22
    even attended this meeting. What I'm saying is: In
    general, the IT guys at -- at Walgreens, what they said
```

something can or cannot be done, I ignored it.

25 Okay. But do you remember somebody telling 0422 1 you from Walgreens that they would not be opening any more patient service centers --3 No. 4 Q -- until July? 5 A No. 6 Q So you don't remember this text message at 7 all? 8 No, I don't. I'm just reading it out and 9 saying like I said when I started out, that my assumptions or my -- my experience with Walgreens technicians was that -- the IT guys was: If they said 12 something, I basically ignored it. 13 BY MR. KOLHATKAR: 14 Q I guess if you're ignoring it, why -- why are 15 you raising it to (b)(6); (b)(7)(C)? 16 A Because it's -- like I said, it is important 17 for her to know what our frustrations in the field. We 18 were a small company. This was not IBM where I cannot share this with (b)(6); (b)(7)(C). This was an important 20 partnership. Anytime she spoke with Walgreens and (b)(7)(C) others, which she used to, I 22 wanted her to have this data so that if they say, "Can you do this for us," she could ask, "Then can you 24 please ask your IT to move faster." 25 And that happened all the time. So this was 0423 1 not the only instance when I said, "Hey, you know what? The bathroom space that Walgreens had promised us is terrible. So the next time when you talk to them, can you mention that to them." 5 So this is a routine thing, and she used to escalate these things to (b)(6); (b)(7)(C) 6 7 often. 8 And just so -- just so I'm clear, your best 9 recollection is that the statement here, "We can't scale with WAG," doesn't mean that in your mind, Theranos was going to have -- was going to have 12 difficulty scaling with WAG? 13 Not at all. Not even remotely. Not even 14 close. 15 BY MS. WINKLER: 16 Q So if you don't remember this meeting that 17 this message was talking about, how did you know that 18 it was an IT person that told you this? 19 I think it says here, right here, "the IT 20 integration deadline." 21 Q Where does it say that an IT person told you 22 that? 23 Α Well, one of the IT guys or somebody on behalf of IT would say that. But typically the 25 corporate guys are not going to be able to make a 0424

```
commitment or a comment on behalf of IT.
1
2
         But like I said, also, I dealt with
   Walgreens' IT since 2010. And, I mean, I knew people
3
   in Walgreens' IT, I knew their systems, what code they
   wrote. And like I said, literally getting them to even
   install a printer in the stores was going to be part of
7
   the next five-year phase.
8
         BY MS. CHAN:
      Q So you're guessing that it's an IT person who
9
10 made that comment to you at a meeting?
11
          Yeah, but I'm -- I'm confident this is a good
12 guess that it's an IT person or a corporate person
13
   speaking on behalf of IT, which would happen.
14
          BY MR. KOLHATKAR:
15
          If you -- you could turn to the page ending
16 in 6354.
17
       A Okay.
         Do you see the message chain starting at --
18
19
   on April 9, 2015, from you to Ms. Holmes? "If contract
20
   terms and we don't have 1,000 stores, what happens to
21
    50M remaining innovation payment?"
22
          Do you see that?
23
          Where are you?
24
          At the top of 6354, about the --
25
         Yes, yes, I do.
0425
1
      Q What are you asking there? Do you -- do you
2
   remember having this -- this exchange with Ms. Holmes?
      A No, I don't, but I can read it and see if I
3
   can recall something or understand something.
5
      Q Sure. Why don't you just read this page, and
   then we can go through it.
7
         (Witness reviewing document.) Okay.
8
          Okay. So going back to my initial question,
   that line, "The contract terms and we don't have 1,000
   stores, what happens to 50M remaining innovation
   payment," what are you asking Ms. Holmes there?
11
12
       A I think I'm discussing with her the --
13 something about the -- we were negotiating the contract
14 back and forth with Walgreens at this point, so it's
15
   probably something from that that I'm discussing with
16 her. I don't recall exactly what was the context here.
17
           Yesterday, we were talking about -- we talked
   at some length about the -- the innovation payment; is
18
19 that right?
20
       A Correct.
21
          And you -- and you recall generally saying
22 that it was your general view, subject to minor
    exceptions, that the innovation payment was -- was
24 Theranos's to keep?
25
           That's right.
0426
1
          What are you referring to when you're talking
2 about the 50 million remaining innovation payment
```

3 there? 4 A Right. So we were at this point trying to incent Walgreens to build out faster. This is -- again notice this is April of 2015. So we were trying to incent Walgreens to build out faster. As a matter of fact, we put incentives for Walgreens to move faster at this point in our draft contract. And as part of 10 that -- and this is the discussion that I referred to 11 earlier, which is: Who is going to pay for the 12 construction? 13 We had the 100 million dollars that we 14 thought -- or 50 -- I forgot what was the budget. But 15 we said, we can invest that in construction or have 16 Walgreens invest that in construction and use that 17 money towards growing within Walgreens. 18 Q So, sorry, this is a discussion around using 19 part of the innovation payment for the --20 Yes, that -- that was ours that we were going 21 to either invest directly in the stores constructing 22 them or we would provide this as a sweetener, some 23 money of that, to Walgreens to move faster, build out 24 the stores, and if they hit a certain milestone then we 25 will give them cash incentives. 0427 Q I guess, what does that have to do with 1 2 contract terms? 3 Because we were negotiating the contract. 4 "Terms" meaning -- you think that means the 5 terms of the contract and not termination? A Yeah, I think it means if the contract 6 7 terminates. 8 Okay. O 9 Right. 10 Q So I guess what does -- what does the issue of termination have to do with building out more 12 stores? 13 A I mean, I don't recall. I'll have to read 14 the contract to see what terms were -- we were discussing. I mean, if I had the draft, I would be able 16 to probably recall. 17 Q You see Ms. Holmes responds to you at -- at 18 2054:40, "Scale now if need." 19 A Yeah. 20 Q And you respond, "So force build 1,000 21 stores? I don't think that's intelligent." 22 A Yes. 23 What did you understand her to be suggesting? 24 "Scale now" means -- and I'm guessing here 25 again. If I see the contract, I will be able to fill a 0428 1 lot more gaps, but I don't remember that. And this is back and forth that I was doing with Walgreens was that

build 8,000 stores ASAP right now and give them

3

incentive to do that.

```
5
          If you look a little further down the chain,
6
   it looks -- at -- at 2115 and 17 seconds, it looks like
7
   you say to her, "I will say we keep 25 no matter what."
8
         Do you see that?
9
         Yes.
      Α
10
       Q
          What are you suggesting there? I mean, are
    you talking about keeping $25 million of the innovation
12
    payment no matter what?
13
       A Like I said, if I see the contract, I would
14 be able to tell, but it's hard to guess what I meant
15 here.
16
       Q
          I guess you were -- you were familiar with
17 the -- with the innovation payment at this point in
18 time?
19
       A
           Of course, yes.
20
           And you previously testified that by the --
    at the time Walgreens paid that innovation fee, it was
    your understanding that Theranos would get to keep it?
       A Absolutely. It's also, like I said,
23
24
   documented in the contract pretty well.
25
           So I'm trying to understand what about the
0429
1
   innovation payment you're -- you're negotiating --
2
          We --
      A
3
          -- here in 2015?
4
          We were not negotiating an innovation
   payment. We were using this term internally between us,
   how to use money to incent Walgreens. We were just
   using this term to define, you know, either 50 or 60 --
   we -- we had decided that the money that we got from
   Walgreens, we would invest in the build-out. And this
10 is what the discussion was with Walgreens also. When
11 the executive visited us, we said, "Look, we will pay
12 for the build-out. We have the money."
13
          And so we are using that as a -- as a
14 reference point probably at this point. But again, if
15 I see the contract, I would be able to see if this
16 language -- I doubt we used this language in the
17
   contract. I'm pretty sure we didn't.
18
          If you look at the -- your message at
19 2115:44, "But if natural terms, then we return 25."
20
          Do you see that?
21
       A Yes.
22
       Q I guess, in that contract negotiation you
23 were discussing, what -- what -- what would be returned
    to Walgreens?
25
          I'd like -- I don't remember. If I see the
0430
   contract, I would be able to -- I'm sure you have a
2
   draft of that. I can see if the --
3
         BY MS. CHAN:
4
      Q What about the contract will refresh your
5
   recollection about this exchange?
      A It will show me what we were negotiating with
```

```
Walgreens and what were we referring to, which
8 payments, what 25s.
9
         BY MR. KOLHATKAR:
10
          I guess, is it -- what payment would there be
11 to return to Walgreens at this point in time?
12
       A It would probably be in the contract, in the
13
   draft. If I see this, it would refresh my memory. I
14 would be able to give you a better answer. But I don't
15 know what we were negotiating at Walgreens, what were
16 the specifics.
17
          BY MS. CHAN:
       Q So you think there was a payment other than
18
19 the innovation fee payment that you're talking about
20 returning to Walgreens?
       A No, I didn't say that. We are -- this is
21
   2015. The contract that I'm -- we were referring to
   of -- with the -- from -- about the innovation payment
24 was 2012 and the amendment in 2013. That was clear,
25 the innovation payment was us -- was ours.
0431
1
         Now we are talking about renegotiating the
   contract and see if we can incent them to build out
2
   more stores on -- the way we wanted to. And we were
   open to using, you know, 50 million, 60 million, a
   hundred million, or more if it took, to be able to
   build out stores and accelerate the expansion the way
7
   we wanted it.
8
         Now, we may be labeling -- again, if I see
   the contract, I can probably tell you what we were
9
   talking about, but we may be thinking in our heads that
    "Look, we have this $100 million. We can use that for
   construction or for other purposes to build our
13
   business."
14
          So if I see the contract, I would be able to
15 give you more details.
16
          BY MR. KOLHATKAR:
17
       Q But, I guess, to the best of your memory,
18 this returning 25 doesn't refer to returning $25
19
    million of the innovation payment?
20
          There's no other money that we had from
21
    Walgreens. The innovation payment was ours to keep.
22 We may be using this term internally to describe a
   concept that we are investing something -- 25 million
24 in Walgreens, so it may be returning that. But again,
25 if I see the contract, I'll be able to respond more
0432
1
   accurately.
         But at this point even here, I had no doubt
2
   in my mind that the $100 million innovation payment was
3
   ours per the contract.
4
5
      Q At some point in time, did Theranos stop
   using its nanotainers in its retail offering through
6
7
   Walgreens?
8
      A Yes.
```

9 When was that? 10 A It was around September of 2015, maybe end of 11 August, early September. 12 Why did Theranos make that decision? 13 Well, it was a complicated decision. We had 14 an audit from -- by FDA staff in August of 2015 and it started and concluded in three weeks. And as part of 16 the audit, we were having discussions. The FDA staff looked at one of the two -- we were using two different 18 types of CTNs in the field at that time. One was 19 lithium heparin. The other -- other one was EDTA. 20 They have two different types. 21 O And lithium heparin, was there an 22 abbreviation used internally? 23 A Li hep. 24 Q Li hep. 25 Yeah. And that was the -- they were -- they 0433 1 were different chemically and then the design was different. 3 And the FDA had asserted at that time in the audit that the lithium heparin CTN was a Class 2 device. During that audit, we reached out to FDA and said, "You know, you have not told us to stop using 7 these CTNs. If you want us to, we will be happy to do 8 9 And they said, "No, that's your decision. We 10 cannot tell you that." 11 You know, FDA sends you a warning letter 12 usually when they want you to do something. 13 Q I guess, were you part of those FDA 14 discussions? 15 A In 2015, I was involved with those 16 discussions, yes. 17 Q Did you receive that communication from FDA 18 saying that -- that they weren't --19 A I was on the call along with Elizabeth Holmes and our general counsel with (b)(6); (b)(7)(C) from 21 the FDA side, who is the head of OV -- OIV, I think. 22 Wrong acronym maybe. 23 Do you remember when that call took place? 24 Yeah. It was the end of August while the 25 audit was ongoing. 0434 And we had called (b)(6); (b)(7)(C) 1 We said, "We don't understand. The audit was supposed to be" --"You know, we don't understand what's the purpose of the audit. Just tell us what you" -- "what you want us 5 to provide so we can provide them." 6 Because the audit was slightly unusual. 7 Instead of the inspector from the field, there were two people from the DC office also, and they were 9 kind of going back and forth between the field 10 inspector and the DC guys where to focus on.

```
So we just called (b)(6); (b)(7)(C)
11
                                         because we
12 had a pretty good relationship with the FDA in the DC
    office. And we said, "If you want" -- "if you have
14 issues with the CTN, please tell us. We have always
15 worked with you and we will do whatever the FDA tells
16 us to do, and we will make any short-term decision we
17 have to do."
18
          And -- and we had submitted the CTN to the
19 FDA for clearance early on in 2014. In December of
    2014. (b)(6); (b)(7)(C)
20
                        had a call with Elizabeth Holmes
21
    that --
22
       Q
          I guess, were you on this call with --
23
       A No, I was not, sorry.
24
          Okay. So I --
25
           Oh, sorry.
0435
1
          We can a talk about the FDA in a little bit
2
   more detail in a minute.
3
      Α
          Sure.
4
          I guess my -- my question was sort of, you
   know, when did Theranos stop using the --
6
      A Yeah.
7
      Q
          -- the CTN at -- at Walgreens and why?
8
          That was the answer. So when we talked to
10 the FDA, he said, "I mean, that's your decision." At
    that point, we said, "Look, we already have a lot of
    data. We are close to submission." And we as a team and
13 a few members from the board said, you know, "Let's
14 just stop using CTNs, submit all the data, even for the
15 CTNs that are not Class 2 devices," which is what we
16 don't have to submit to the FDA, "and then get all of
17
   them cleared, and we'll start using them."
18
          So we made the decision to stop using CTNs at
19 that time.
20
       Q
           Who on the board did you have that discussion
21 with?
22
       A I think it was general counsel and (b)(7)(C)
23
24
       Q
           Okay. Was he on the board at that time?
25
       A
           Yes.
0436
1
          The -- did you communicate the decision to
2
   stop using the CTN to Walgreens?
3
          No, I didn't.
4
      Q
          Did anyone from Theranos?
5
      Α
6
          Was that an internal company decision not to
      Q
   communicate that to Walgreens?
7
8
      A
          Yes.
9
      Q
          Why did you reach that decision?
10
          First of all -- this is, again, September of
    2015. We were in the landlord/lessee model. We were
    already executing that in the field. I had to stop
```

```
13 providing them, to the best of my knowledge, the finger
14 stick percentages. We stopped even discussing that for
15 the most part. And I didn't think there was a need for
16 them to know. We were the lab. We were making all the
17 right decisions for -- for our business.
18
       Q If you turn to the page ending in 6476. And
19 this is a -- this is a chain dated October 20 -- 16,
20 2015.
21
          Do you see that?
22
       A Yes.
23
         And do you understand that to be after the
24 time the Wall Street Journal started reporting
25 negatively about Theranos?
0437
1
      Α
          Yes.
2
          And if you -- if you just read kind of the --
   the chain starting at "Okay, WAG freaking out. Lack of
   transparency." If you could read just kind of through
   the rest of the page, and then let me know when you've
5
   had a chance to review it.
6
7
      A Uh-huh. (Witness reviewing document.)
8
         Okav.
9
      Q Do you see -- do you see the suggestion from
10 Ms. Holmes there, "Then let's show them that this is
   literally" -- you understand this discussion to be
12 Walgreens freaking out about --
13
       Α
           Yes.
14
       Q -- not knowing about the discontinuation of
15 the CTN use?
16
       A Yes.
17
       Q
          How did you know that Walgreens was freaking
18 out?
19
          I think I had a call with either (b)(6); (b)(7)(C) or
20 somebody from Walgreens that they said, "We read about
21
    this thing, and you should have told us."
22
          And I said, "You know, I don't think we have
23 to."
          But I think I had a brief conversation with
24
25 (b)(6); (b)(7)(C)
0438
1
      Q I guess just talk about your relationship
2 with Nim for a second. I mean, would you call him a
   friend as well as a colleague?
4
          No. I mean, I would say colleague. I mean,
   he applied for a job and -- at Theranos, so I
   wouldn't -- if he was a friend, I would have probably
7
   talked to him more about it. But I wouldn't call him a
8
   friend.
9
      Q I guess, did you communicate on friendly
10 terms generally?
11
       A I was on friendly terms with a lot of people
12 at work, but I wouldn't say he was my friend.
```

Q Okay. I guess -- I mean, did he generally 14 give you the impression that he was trying to support

15 the Theranos relationship at Walgreens? A I wouldn't say that. I think he generally 16 17 gave me the impression that he wanted this project to 18 succeed for Walgreens. 19 What's the distinction in your mind? 20 Supporting -- doing a favorable impression of A 21 Theranos means that he was trying to present us in a --22 in some kind of light, and I don't believe that was the 23 case. Yeah. 24 O Okay. But he -- he wanted the -- he wanted 25 Walgreens to have a successful rollout of Theranos 0439 1 services? 2 A Yes. That would be my impression. 3 Okay. And so it would be natural for him to be concerned with -- by the Wall Street Journal 5 reporting; is that --6 A Yes. 7 0 -- is that fair? 8 A Yes. 9 And Ms. Holmes suggesting here -- I guess, 10 what is Ms. Holmes suggesting here? That --11 Which line are you looking at? 12 I'm looking at the line that says, at 1931 13 and 12 seconds, "Then let's show them that this was literally" -- "that this literally is still up in air, 15 so we literally just decided since the discussions" --16 "this discussion is getting aired out in press." You say. "Okay." You say, "However, issue 17 18 is: We didn't tell them in advance about switching." 19 And then she says, "We'll have to present 20 well that we hadn't decided to"? 21 A Right. 22 And you say, "Bad idea. At this point they 23 know, so need to be transparent." 24 What did you understand Ms. Holmes to be 25 suggesting here? 0440 1 A I'd have to read this carefully to put it in context. (Witness reviewing document.) 3 I don't -- at this point, I don't know what she means by "this discussion" -- "since the discussion is getting aired out in the air" -- or sorry, "we literally just decided." So I don't know what she means by that. But if I were to guess, in my previous comment, I said, "I actually even thought about it, but 9 I got too busy to chat." 10 So again, it wasn't -- if it were important, 11 I would have called them. But it was more an FYI. 12 That "Hey, by the way, we are going to do that." But I 13 didn't execute on that. Like I said here, I got -- I am busy with that. And I actually don't remember what 14 15 she meant -- means by that. 16 What are you saying is a bad idea?

- 17 That's what I'm trying to remember here. 18 Yeah, I don't recall exactly what the context was 19 there. 20 I mean, generally, do you recall what --O 21 what -- what suggestion she's making that you think is 22 a bad idea? 23 A I wouldn't be able to guess by looking at 24 just these three lines. I'm asking you to look at three lines in the 25 0441 context of, you know, your extensive experience at 1 Theranos. 3 Do you have an understanding based on that experience and -- and reviewing this document what 4 she's suggesting here? A I don't. I don't. Because we were having a 6 lot of discussions, so I don't know which specific point she was referring to. 9 BY MS. CHAN: 10 Q This seems to me like she's saying we should just tell them that we just decided to stop using the 12 nanotainer. Do you not share that view? 13 No, because Walgreens would know when we 14 stopped using the nanotainer because like I said, they 15 had access to the raw data. They were seeing patients. 16 They were checking in the patients. Every time a 17 patient walked in, they always went to the Walgreens 18 who was using the app to check them in. 19 So Walgreens technician -- if -- Walgreens 20 would absolutely have access to the data on when the --21 the CTNs were stopped -- stopped using them. 22 Okay. Then why are you saying that you got 23 busy and so you never told them? If they already knew, why would there be a need to tell them? 25 A Just as a courtesy. 0442 BY MR. KOLHATKAR: 1 2 Q I guess, would there be any reason for 3 Walgreens to freak out about a lack of courtesy at this 4 time? 5 You know, Walgreens was worried about the -the media and the negative article. So people were asking them questions that they could answer -couldn't answer, and that was the key issue here is that you should have told us what you're doing because 10 when people ask us and we can't answer, we look like
- 12 were unhappy. 13 Q I want to turn to Theranos's relationship 14 with Safeway.

11 fools. So that was the point -- the reason why they

- 15 Should I put this away (indicating)?
- Q You can put it on this (indicating). Yeah, 17 why don't we -- there's a rubber band. Why don't we --
- 18 I'll just put it -- yeah. Oh, okay.

```
19
          Thank you.
20
          At some point in time, did you become aware
21
   that Safeway was considering writing down its
    investment with Theranos?
23
       A I -- I don't recall that.
          I'm handing you what's previously been marked
24
25 as Exhibit 126.
0443
1
      A
           Okay.
2
           Do you recognize Exhibit 126?
3
          I do.
4
      O
           What is it?
5
           It's an e-mail exchange between myself and
   (b)(6); (b)(7)(C)
6
                                                          at
7
   Safeway.
8
           And was he your primary contact at Safeway
9
   for -- for Safeway issues?
10
       A
           Yes.
11
           And, you know, we talked a little bit
12 yesterday about Ms. Holmes' relationship with -- with
13
                                   is that right? Was (b)(6);
14 (b)(6); (b)(7)(C) sort of the person you -- you dealt with more
15 after (b)(6); (b)(7)(C) left?
           Yes.
16
       A
17
          I want to turn to the third paragraph of your
18 e-mail dated February 18, 2014. You say, "I would also
   like to emphasize that if Safeway" -- or "SWY" --
19
20
       A
          Yes.
21
           -- "chooses to write off the note, as
       Q
22
    communicated to your CFO, there must not be a mention
23
    of Theranos."
24
          Do you see that?
25
          I do.
       A
0444
1
      Q Does that refresh your recollection about a
2
   discussion with Safeway about writing down their note?
3
          It does.
4
      Q
           What do you recall about those discussions?
5
           I had a meeting with Safeway I think a week
   before this e-mail or around this time frame. The
6
   other person mentioned here, his name is (b)(6); (b)(7)(C)
   (b)(6); (b)(7)(C)
8
                     -- he's CC'd here in the e-mail from (b)(7)(c)
9
   (b)(6); (b)(7)(C)
                                            Safeway at that
10 time. They had invited me to meet with them in the
11
           headquarters in Pleasanton.
          And they had said, "You know, we have not" --
12
13
    "we have a need for" -- "there's an audit happening at
    Safeway, and we need to be able to show that this $30
    million that we gave to Theranos, you still have it and
   you have the ability to repay it. And if you don't do
17 that, then we will have to write it off. And
18 that's" -- "we don't want to do that. It's going to be
    negative for us, and" -- "and we will have to also say
20 we are writing it off because of Theranos, and it will
```

be negative for you." 21 22 I said, "No, you cannot do that. If you 23 choose to do that, you cannot mention our name and put some negative attention on us." 25 So that -- that was the discussion. 0445 1 And in early 2014, I guess, did -- did Theranos have the ability to repay the \$30 million to 2 3 Safeway? 4 Α I believe so, yes. 5 Q With what funds? I think we had -- I don't remember exactly 6 how much cash we had, but I think we had funds available at that time. We had 29 or \$30 million cash already. We had raised some capital in December or January of 2014. Actually, PFM had invested as part of 11 that. And we had the payment from Walgreens. 12 The -- why was it important to you that there 13 not be any publicity around Safeway's decision to -- if 14 they had decided to write down the note, why Theranos 15 couldn't be mentioned? 16 Because we had not announced to anybody that 17 we had a contract with Safeway. It was not known in 18 the public yet. And any contract that we were going to announce -- any announcement we were going to make with 20 Safeway we wanted to be a positive announcement. 21 This was also one of the reasons why we were 22 going back and forth with Safeway around where the pilot is going to be, at which location, because we didn't want any negative spin on why Safeway cancelled 25 this model. 0446 1 So, I guess, putting this in the context of the Safeway relationship at this time frame, did you understand that Safeway required a pilot before it would roll out to additional Safeway stores in early 5 2014? 6 A Not -- no, not necessarily. Even though it 7 was in the contract, our last discussions with (b)(6); (b)(6); (b)(7)(C) which were pretty clear is that he's -- he wanted to move on to the national rollout. And that was the point we were making with Safeway several times that we are past pilot, and we are moving to a national 12 rollout. 13 And as a matter of fact, there was a 14 milestone payment for which we sent the invoice to 15 Safeway because we had an e-mail interchange with (b)(7)(6) 16 (b)(6); (b)(7)(C) And I remember that. Elizabeth Holmes had sent that e-mail to (b)(6); (b)(7)(C) That "You had already 17 kind of announced to everybody that you are launching a 19 new service in your stores, and that's us, and we are 20 going to do a national launch." And (b)(6); (b)(7)(C) 21 said, "Yes. We are going all 22 the way."

Okay. But after (b)(6); (b)(7)(C) 23 left, did -- did 24 other people at Safeway agree with that? 25 I don't -- I don't think so. 0447 1 Q Why not? 2 Well, other people at Safeway were trying to forget a lot of things that we had agreed with with  $\binom{[0)(6)}{[0)(7)(C)}$ 4 (b)(6); while (b)(6); (b)(7)(C) was in the room and they wanted 5 to go back to the contract. And we were pointing out to him that a lot of things that we had agreed on in the contract, as we had agreed on, immediately after we signed the contract, will need to be modified. 9 And we pointed out to him that, for example, 10 the first payment they had made to us of \$25 million was already something that was -- reflected that the 12 contract had changed -- the terms of the contract had 13 changed. 14 Q At any point in 2014, did anyone from Safeway 15 communicate plans to open over a hundred Safeway locations for Theranos in 2015? 16 17 Not explicitly. But throughout 2014, several 18 times, I was negotiating with (b)(6); (b)(7)(C) about, you know, launching our service. We were negotiating the contract. We were going back and forth. But no, I 21 don't recall explicitly if anybody did. 22 And in 2014, did you have expectations that 23 Theranos would open more than a hundred Safeway 24 locations in early 2015? 25 I don't recall. I'll have to see the model 0448 1 to see what I had -- what's modeling. 2 Q I guess any assumptions you had would be 3 reflected in the model? 4 Yes, I would say so. 5 In 2014, were the -- were the two companies discussing the use of a rental model at Safeway stores? 6 7 A I believe so. I -- I forget the time frame, but I think it was 2014. 9 What would the -- what would that rental 10 model have meant for -- for -- for Theranos? 11 A It meant we could take over the Safeway 12 locations that the -- they had built out about 900-plus stores for us. They sold out -- actually, close to a 14 thousand. They spun off some Safeway stores, so I 15 think the final number was about 800 or 850 by this 16 time because they were getting rid of stores as part of 17 their merger with Albertsons. 18 So what that meant was: We would be able to 19 rent or lease that space that was built out for us at 20 Safeway stores and use it and provide our services any 21 way we wanted to. And pay them rent, obviously, in --22 in exchange. 23 And what were the terms of those -- that 24 rent, if you recall?

25	A We were negotiating. I mean, we were going
)44	
1	back and forth about what the terms would be.
2	Q In 2014, did anyone at Theranos threaten to
3	terminate the contract with Safeway?
4	A (b)(6); (b)(7)(C) and I had a good relationship, so
5	we used to kind of play that button on each other
6	sometimes, and say, "Look, if you don't want to work,
7	we should terminate." And we both knew we were not
8	going to terminate because they had made a big
9	investment in this, we had made a good investment in
10	
11	part of the negotiations, we used to put pressure on
12	
13	Q Did you tell the board that you were
14	considering term inating the relationship with Safeway?
15	
16	A No. We had a discussion with the board that
17	
18	were a few members on the board who knew members on the
19	board at Safeway. (b)(6); (b)(7)(C) was one of them. And
20	he said, "I can call somebody and get them moving
21	faster."
22	And we said, "Yeah, please do."
23	And so we were trying to triangulate that
24	
25	are working with Safeway as best as we can.
045	To the state of th
1	Q I guess, did you communicate to (b)(6); (b)(7)(C)
2	that you had this sort of relationship with (b)(6); (b)(7)(C)
3	where you could, you know, play the termination card,
4	so to speak?
5	
-	A Yes. Yeah. We knew that Safeway guys are
6	extremely tough negotiators, very tough. (b)(6); (b)(7)(C)
7	AND WITHOUT THE
8	And he actually, I think, testified in his testimony
9	(b)(6); (b)(7)(C)
10	
11	-
12	
13	Q What testimony are you referring to?
14	A (b)(6); (b)(7)(C)
15	Q The did you review (b)(6); (b)(7)(C) were
16	you there for his
17	A No, I heard that headline.
18	Q Okay. And again, I'm not going to inquire
19	about what you know
20	A Yeah, thanks.
21	Q what was communicated to you through
22	counsel.
23	The did you I guess, did you speak to
24	(b)(6); (b)(7)(C)
25	A No.
23 045	
	×.*

Separate and aside from the pilot, I guess, specifically, was Safeway still looking for some sort of proof of concept from Theranos in 2014?

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16 17

There were some people at Safeway -- they had a new ownership like Walgreens, unfortunately, who, you know, wanted to review what this technology was going to be and what is Theranos. They didn't know about us. And we didn't want to reopen the entire thing -- an entire dialogue with them again, at least with new parties. We wanted to focus on people who had the background because we were not going to engage in another 12 months of contract negotiations with a new group. So yeah.

Q Did -- I guess, did -- did Theranos propose 15 any solutions to sort of complete that proof of concept or --

17 Yeah. We said, "If you really want to do Α 18 proof of concept as a gesture of goodwill, we can pick 19 a place remote and do a proof of concept there." We 20 actually signed a contract in Wyoming, Blue Cross Blue 21 Shield of Wyoming, in anticipation that we will do a 22 pilot if we need to be in Wyoming with Safeway.

23 And they had 11 locations that would have been away from the public eye. Quietly we could have 25 done a pilot. And if things didn't work out, if they 0452

1 want to cancel at that point, fine.

2 But they wanted to do a pilot in Bay Area 3 right here in San Francisco, and we said, "No." To us -- this is what we talked to (b)(6); (b)(7)(C) about that 5 this is a national launch. This is what we were preparing for. So no, we are not doing a small pilot in California. That was the disagreement.

And in your mind when you were thinking the national launch with Safeway, were you thinking about using that mix of TSPU, commercially modified -modified commercially available analyzers, and unmodified analyzers?

At Safeway, the services we were providing?

The blood collected at Safeway would be 15 tested on sort of those three categories of machines?

It would be a central lab -- centralized lab 18 model, which is why Safeway recognized that and gave us 19 the first payment when we got our CLIA license.

20 So, yes, it was going to be -- now, with the 21 rental model, we could have done anything. We could have chosen not to offer finger sticks if we didn't want to because they were a landlord. And they're doing that with Quest Diagnostics in some stores. So 25 with the rent model, we owned everything. 0453

1 Did you ever communicate to Safeway that --2 that Theranos was using commercially available

technology in its -- in its central labs? A Yes. 5 Q Why? 6 We had -- 2010, two thousand -- 2011 when we 7 opened our CLIA, all we were doing was venipuncture, and we told them we run them on FDA-clear devices in 2010 and 2011. And as a matter of fact, I think some 10 of our reports may have even included the name of some 11 of our devices initially. 12 Well, I guess, when discussing the -- the 13 national rollout and the -- or the Wyoming pilot, was 14 there any discussion of using commercially available 15 machines? A Yes. We communicated, like I said, to(b)(7)(c) 16 17 (b)(6); (b)(7)(C) explicitly we are using those machines now and we 18 will continue to use them for any venipuncture or 19 anything we wanted to use. 20 So you mentioned earlier that generally, 21 Theranos didn't disclose what machines it was using 22 because it was a trade secret; right? 23 No, no, no. What was trade secret was the 24 modified machines, how we had modified commercially 25 available machines and made them do things that people 0454 1 thought was impossible. That was a trade secret. To Walgreens, what I had said was: We didn't want Walgreens to even find out which vendors we do business with because Walgreens would write down those notes and they will go to them at some point if they want to 6 build a lab. 7 So from Walgreens, we kept it as a trade secret. Also from other people we -- that we didn't trust, we kept it as a trade secret. Steve Burd was not one of them. (b)(6); (b)(7)(C) 11 and we didn't worry that under (b)(7)(C) 12 (b)(6); Walgreens is going to violate a confidentiality. 13 So --14 MR. MCKAY: You mean Safeway? 15 THE WITNESS: Sorry, Safeway. Yeah. Sorry. 16 Thank you. So, yeah, (b)(6); (b)(7)(C) knew that we were using 17 18 commercial analyzers. Now, I don't think he ever dug into, like, what machines. Which vendor? Tell me the 20 names, you know. That was not his interest. 21 BY MR. KOLHATKAR: 22 I guess I'm trying to just understand that. So because you had more trust in (b)(6); (b)(7)(C) that you felt 24 more capable about disclosing more of the technology? 25 No, not technology, just about -- you're 0455 1 asking me did they know we were using commercial -- the machines that we were using. The answer to that is 3 yes. We were using them and we will continue to use 4 them.

5 I guess, what about (b)(6); (b)(7)(C) character, moral character, in -- in your mind, made it okay to --7 to explain that to him? 8 A Well, he was -- in my observation was -- he 9 was not trying to copy what we were doing. He was 10 trying to lock us down for even 10, 20 years. The contracts that he was proposing was mutually beneficial 12 20-year contracts. 13 Q Did other people share -- at Theranos share 14 that view of trusting Safeway a little more than --15 than -- than Walgreens? Trusting (b)(6); (b)(7)(C) more than Walgreens, yes. 16 17 Who shared that view? 18 Mr. Holmes -- Ms. Holmes, I'm sure. 19 20 And what's your basis for that understanding? 21 Just our interactions with (b)(6); (b)(7)(C) 22 I guess, can you recall a conversation with 23 Ms. Holmes where she sort of expressed that sentiment 24 to you? 25 A No. I mean, nothing specific. It was more 0456 1 of, you know, the impression we had of (b)(6); (b)(7)(C) that he's somebody that he's not going to violate our confidentiality. 4 BY MS. CHAN: 5 Q Did you ever disclose to Safeway that you were modifying commercially available machines at -- at 7 Walgreens? 8 A No, we would never do that. Not at Walgreens in our lab. We would not --10 In your lab, but for the Walgreens rollout? 11 No. For the same reasons, that was a trade 12 secret. We would not do that. And we didn't share that with (b)(6); (b)(7)(C) 13 also for the same reason. 14 So what was the status of the 15 Theranos/Safeway relationship in late 2014? 16 A I don't recall exactly, but like I said, 2014 17 and even parts of 2014, we were going back and forth in 18 negotiating the terms of the lease agreement. And I 19 think we were stuck on a couple of point -- key points 20 or two or three key points that we were negotiating 21 back and forth. 22 Were there any discussions in late 2014 about 23 rolling out Theranos services in Safeway stores, about actually doing the work to roll out in stores? 25 You know, the -- the work we had to do at 0457 Safeway was not different from Walgreens work. It was 1 identical workflow, same apps, same software. Safeway actually was easier because they had connectivity they were going to provide us. They were -- their IT was 5 better. 6 So there was nothing unique to Safeway that

we had to do. Obviously, print new lab order forms so people know to go to Safeway versus Walgreens. But 9 there was nothing -- nothing really different for 10 Safeway that we had to do. 11 Q So my question was: Were there any 12 discussions with Safeway in late 2014 about actually 13 rolling out, printing out lab order forms, getting the 14 rooms ready to open in Safeway stores? 15 A So the lab order form, no. The rooms were 16 basically ready because they were designed for the 17 national launch, so there was nothing again in the 18 rooms that we had to change. Literally even the TVs 19 that we talked about, the bamboo trees were already 20 there. We had to pick them. Safeway had paid for 21 them. Even the chairs that we had wanted the way we 22 wanted. There were also pictures of entrepreneurs or inventors on the walls. The bathroom was built. 24 And their bathroom are clean. We designed 25 them. Everything was done. There was nothing that we 0458 1 needed to do in the Safeway locations. We just needed 2 to move in. It was at -- all the locations were ready 3 to move in. 4 So were there any discussions for Theranos to 5 move into those stores --We were --6 7 Q -- in 2014? 8 A No. We were negotiating the contract, and as soon as the -- the terms of the lease agreed upon --10 were agreed upon, we would have started. 11 MR. KOLHATKAR: Why don't we take a break. 12 Go off the record at 10:09 a.m. 13 THE VIDEOGRAPHER: Off the record. 14 (A brief recess was taken.) 15 THE VIDEOGRAPHER: Rolling. 16 MR. KOLHATKAR: We're back on the record at 17 10:22 a.m. 18 BY MR. KOLHATKAR: 19 Q Mr. Balwani, just to confirm, you didn't have 20 any substantive discussions with the staff during the break; is that correct? 21 22 That's correct. 23 I'll hand you a document which has been 24 previously marked as Exhibit 119. 25 THE WITNESS: Yes. 0459 1 BY MR. KOLHATKAR: 2 O Do you recognize Exhibit 119? 3 I do. Α 4 Q What is it? 5 It's an e-mail conversation. An e-mail from 6 (b)(6); (b)(7)(C) from Safeway to Elizabeth on June 6, 2014, and then from (b)(6); to Elizabeth again and CC'ing 7 two or three other people that I -- I recognize  $\frac{b)(6)}{b(7)(6)}$ 

(b)(6); (b)(7)(C) but I don't recognize the other two. 10 And it looks like he's asking for a 11 follow-up -- a response to his e-mail from -- from 12 13 Do you see that? 14 A I do. 15 Do you know if Theranos had had any 16 discussions between -- with Safeway from that June to 17 August time period? 18 A I don't recall, but like I said, in 2014, we 19 were talking to them on and off. So I don't remember 20 which month we started and when it stopped. Nothing 21 by -- specifically by month. 22 Q Okay. And the -- again, it looks like from 23 his e-mail, the -- from the original June e-mail, it sort of discusses that point you addressed that (b)(6); 25 ((b)(6); (b)(7)(C) would mention, which is the -- they wanted to 0460 1 return to the contract as written; is that -- is that a fair --2 3 Α Where are you reading? 4 I'm sorry, so if you look at the fourth 5 paragraph of this message where he says -- the third sentence, "The contract speaks --7 Yes. 8 O -- "for itself. It has not been amended or 9 terminated." 10 A Yes. 11 Is that sort of in line with what you 12 described earlier that they wanted to return to a contract that, I guess in your mind, had been updated by the conversation with (b)(6); (b)(7)(C) 15 A Conversations and also by the actions that we 16 had taken since then. 17 So what were those actions? 18 Well, they had given us a 25-million-dollar 19 payment when we had signed up as a centralized lab. The contract as written originally was similar to what we had anticipated we would do at Walgreens Phase 1. And it -- it calls out for us putting our TSPUs on site, and providing cartridges, and so on and so 24 forth. 25 But immediately after signing the contract --0461 actually, (b)(6), (b)(7)(C)sent me an e-mail or message. I 1 recall him saying, "Okay. Now the contract is signed. Let's start negotiating. There's much left here that we need to hash out and discuss more details." And I think around 2011 or 2012 was the time 5 frame where we -- 2011 was when we got the CLIA lab 7 license, actually, and by then, we had already spent more than enough time. The centralized lab model is 9 better -- it's a better model to scale around. And 10 that's why they gave us the 25-million-dollar payment.

```
11 Because the contract asked for completely different
12 milestones for us until we have earned the
13
    25-million-dollar payment.
14
          At any point in 2015, did -- did \binom{(b)(6)}{(b)(7)(6)}
15 (b)(6); (b)(7)(C)
                              - sorry, let me rephrase that.
16
          You note this message still refers to -- to
17
    discussion of a pilot.
18
          Do you see that?
19
       A I do.
          The second paragraph?
20
       Q
21
       A
           Yes.
22
           At any point in 2014, did -- did Safeway
       O
    express to you that it was willing to forego the pilot?
24
           Yes. (b)(6); (b)(7)(C)
25
       A
                                 did.
0462
1
      Q
           In 2014?
2
      Α
          2013, sorry.
3
      Q
          Yeah. So in 2014, did they --
4
          No, I don't recall, no.
      Α
5
      O
          I'm just going to --
6
      Α
          Sorry.
7
      Q
          -- let me get my question out --
8
          Yeah.
9
          -- for -- just for the record.
10
          In 2014, did anyone from Safeway express to
11
    you their willingness to forego the pilot?
12
           No. However, in 2014, we were also
13 negotiating the contract. So the pilot would have
14 become obsolete had we signed the lease model. So the
15 two things going -- were going in parallel.
16
           And when did -- did Safeway and Theranos sign
17 an amended agreement?
18
           No, we did not.
19
           Okay. At some point, did Theranos terminate
20 its relationship with Safeway?
21
       A Not while I was in the company. I think it
22
   happened after I left, if it -- if it happened.
23
       Q
           You have no firsthand knowledge --
24
       A
           Correct.
25
           -- of termination; is that fair?
0463
1
      Α
          That's fair.
2
          BY MS. CHAN:
3
      Q Do you recall having any discussions with
   Safeway after this August 1st, 2014, e-mail?
5
      A I don't recall, but like I said, in 2014, I
   was engaged in a dialogue with (b)(6); (b)(7)(C)
6
                                                and many
   times we spent long times on the phone, in person. So
8
   I was engaged with him, but I don't recall which month.
9
          BY MR. KOLHATKAR: Q. I want to turn -- you
10
   can -- you can put that document aside. Thank you.
11
          I want to turn to Theranos's relationships
12 with the Department of Defense. We talked about that a
```

- 13 little bit yesterday. And is it fair to say that -- I
- 14 think your testimony was that you weren't the closest
- 15 at Theranos to -- to those relationships; is that
- 16 right?
- 17 A That's correct. I think -- I would say,
- 18 actually, I barely spent any time on those.
- 19 Q Did you have some understanding of how much
- 20 money Theranos received from the Department of Defense?
- 21 A If it happened before I joined, the answer
- 22 is: No, I didn't necessarily look at where the money
- 23 came from prior -- prior to I joined. But after I
- 24 joined, I don't think it was a significant amount.
- 25 Q And what do you mean by you don't think it 0464
- 1 was a significant amount?
- 2 A I don't know, maybe less than a million. But
- 3 even that, I'm guessing. But anything more than a
- 4 million I would have known.
- 5 Q Okay. So in your words -- in your mind, you
- 6 didn't think of the DOD as -- as providing a
- 7 significant amount of funds to Theranos after the time
- 8 you joined the company?
- 9 A Significant amount of revenue to the company.
- 10 Correct.
- 11 Q Do you know if they provided funds to
- 12 Theranos beyond what would be considered revenue?
- 13 A I would not know. I was -- like I said, I
- 14 was not involved with the DOD significantly.
- 15 Q At any point in time, did you become aware
- 16 that the -- that the DOD was reluctant to test
- 17 Theranos's device absent FDA approval?
- A So I think that's a very broad statement.
- 19 The question is: Who at the DOD because they are
- 20 obviously such a huge department. I recall one meeting
- 21 that I had -- I was -- I had attended with one guy from
- 22 one unit from -- I think Fort Detrick or -- actually,
- 23 maybe -- I may be getting that one wrong. I don't
- 24 remember where he came from, but he was a lab director
- 25 from the DOD. It was one of the DOD departments. And 0465
- 1 he had visited us and he had made that comment.
- 2 Q Do you recall maybe ballpark when that was?
- 3 A I don't recall.
- Q Even generally by year?
- 5 A I would guess maybe 2012 or 2013ish.
- 6 Q Did you ever represent to any investors that
- 7 Theranos had placed a TSPU on an Apache helicopter?
- 8 A No.
- 9 Q Did you ever represent to any investors or
- 10 potential investors that Theranos had placed a TSPU on
- 11 the battlefield in Afghanistan?
- 12 A No.
- 13 Q Would either of those -- would either of
- 14 those have been true statements?

- A To the best of my knowledge, I mean, we shipped some units -- some units in the military. I think they went to Africa. If any of them happened to be Afghanistan, I would know. But I knew -- I know that one -- or a few units went to Africa. But to the best of my knowledge, I don't recall Afghanistan.

  Q So just to answer my question, to the best of your knowledge, that wouldn't have been a true
- statement?
  A To the best of my knowledge, that would not
  be true.

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### BY MS. CHAN:

- Q Do you ever recall representing to investors or potential investors that Theranos had placed a TSPU on a medevac helicopter?
- 5 A No. To the best of my knowledge, neither I 6 or nobody I heard say that.
  - Q And had Theranos deployed a device on a medevac helicopter by 2014?
- 9 A If it happened, I wouldn't know -- I didn't 10 know.

### BY MR. KOLHATKAR:

- 12 Q Did you ever hear Ms. Holmes discuss the 13 possibility of using a Theranos device on a medevac 14 helicopter?
- A Yes. We used to talk about different applications of TSPUs for the future. So including we used to assess what modifications we'll have to make to put a TSPU in a place like Afghanistan and Africa where there's no connectivity. From the software side, I was involved in how would we use cellular connectivity instead of WiFi or Bluetooth and conditions like this.
- And we did spend a lot of time thinking about the modifications. We actually also had done a demonstration for NASA, and we had actually spent a little time thinking about how we would put something 0467
- 1 like this in space because the laws of gravity don't 2 work.
- So we had spent some time on those too. So
  we did have internal discussions, and with other
  visitors, we used to say, "Is it possible to do
  something like this?" And we used to talk about a lot
  of different possibilities.
- 8 Q Do you recall any investors or potential 9 investors that talked specifically about the -- the 10 potential military applications?
- 11 A I don't recall any specific investor. I
- 12 mean, we didn't used to talk too much about the DOD
- 13 work with investors because we were not doing much, and
- 14 at least for the foreseeable future, we didn't have any
- 15 plans for that. It was not even part of the model. So
- 16 we didn't spend much time on that.

17 So is it fair to say, in your mind, that 18 towards the end of 2014, work for the DOD was not something that was part of the business model in the 20 foreseeable future?

21 A It was not a significant part. If we were 22 going to continue doing some projects for the DOD, which I think we were doing one or two projects, but I 24 was -- like I said, I was not involved with those, it 25 would have not been a significant part of the business 0468

1 which is why I was not modeling it in the -- in the 2 model.

3

5

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12

17

Q I guess, did you have concerns with Theranos spending, you know, its limited resources on the project with the DOD?

A I mean, every project is a -- is a concern for me. Anytime somebody says, "I'm working on some project," and you have 80-plus PhDs, hundreds of smart people -- people love projects. And I used to go around killing projects and telling people to focus on 10 11 what we had in front of us.

So any project was a concern for me, but DOD, 13 I would say I think the work we were doing was one of those missions for the company that we do want -- want 15 to -- if we had more resources, we would have spent 16 more time and resources even if there was no income. But we didn't want to not do that.

18 Q Why was Theranos pursuing a relationship with 19 the DOD?

20 Well, we had made a decision that -- first of 21 all, we had unique applications of what we could have done for the soldiers in the field, and there were a lot of applications that we had envisioned that when we put TSPUs in a battlefield -- a lot of our soldiers 25 die, you know, in the first hour or two hours of the --0469

1 of the time when they get wounded in the field, and

there's no way to do a blood test. We were told that soldiers were actually taking blood and putting them on

a screwdriver and spinning it manually to centrifuge

5 them in the field. There's no power. There's no

connectivity. So we wanted to do something for that. 6

7 It was part of our mission that we would contribute

towards the work that the military is doing. We

were -- we were very passionate about that.

10 And we had also made a commitment, like we 11 did with the Medicare and Medicaid, that we will charge the lowest price to the government, to the taxpayers.

And our mission was -- and we used to talk about this

14 internally. We may have even mentioned that to a

15 couple of investors, I don't recall, that when we do

16 the work for the military, most likely it's going to be 17 a nonprofit. We are not going to try to make money off

of them. We will cover our costs, of course. But we

- 19 hadn't gotten that far. It was just a discussion.
- 20 Q You mentioned the centrifuge point. Did --
- 21 did any of the TSPU 4.X models have an internal centrifuge?
- 23 A All of them.
- 24 Q And what about the 3 series?
- 25 A I think a prototype of the 3 series had a 0470
- 1 centrifuge also, yes.

9

2 Q So none of the -- none of the TSPUs -- none 3 of the Theranos -- sorry, let me rephrase that.

None of the TSPUs used for commercial testing had centrifuge capability; is that correct?

6 A It was not required in those use cases.
7 Correct. But we could have put a centrifuge, if there
8 was a use case. Like I said, we had a prototype, but
9 none of the commercial ones currently were using
10 centrifuges in the device. Your answer is -- your
11 question is correct.

#### BY MS. CHAN:

- Q Did you tell Dignity Health or anyone at Dignity Health at the time that they were considering to invest in Theranos that 75 percent of Theranos's revenues came from the DOD?
- 17 A No, we would not do that.
- 18 Q And what -- besides deploying Theranos's 19 devices to Africa, are you aware of any other 20 deployments of Theranos's TSPUs to any other part of 21 the military?
- A Like I said, I was not engaged with the military. There were always, you know, interest, and some devices would go to the military for them to run it themselves, which is why when we sent this to 0471
- 1 Africa, I recall -- the reason I remember that is: I
  2 think we got a letter from the team that evaluated the
  3 device who recommended it to the -- some authority in
  4 the DOD that of all the promising technology they had
  5 seen, Theranos was number one on their list.

And so this is why I remember it. But there were other projects like this that could have been ongoing. I spent close to zero time on that.

Q So you don't know of any others?

A There was one that we were doing for long term. It was a long-term clinical trial that we were doing for burn patients. Whenever soldiers get burned, there are certain markers that we could have identified faster. And I think we had developed all those assays and we had provided all that -- a bunch of devices to the burn unit, I think it was Fort Detrick. But there was some burn unit that was doing research for burned soldiers.

And again, we were doing that below cost or cost, is my recollection. Because like I said, it was

- part of the mission. We were not going to make money 22 from the military. 23 Do you know how much Theranos made from the 24 burn study? I don't recall. It was a long project, so it 25 0472 1 was started before I joined the company. 2 So besides the burn patients and the units 3 that went to Africa, are you aware of any other Theranos TSPUs that were deployed by the DOD? 5 I mean, nothing comes to my mind. It is possible. Like I said, things are happening. And if I see a document, it may refresh my memory, but nothing specifically comes to mind. 9 BY MR. KOLHATKAR: 10 Q I want to turn to Theranos's relationships with pharmaceutical companies. I think you mentioned 11 yesterday most of Theranos's work for pharmaceutical companies took place before you joined the company; is 13 14 that -- is that right? 15 A That's correct. 16 Do you know how much money Theranos earned
  - 17 from that work?
- A I don't recall. Because like I said, I 18 19 didn't pay attention to the revenue prior to '09 when I 20 joined. I knew there was one contract we had with
- 21 Celgene. I think it was for 3 or \$5 million. Again, I
- 22 didn't spend much time on that. It was a long time ago
- 23 in 2009, so I don't remember the particulars.
- 24 Q And I guess, in the 2013 time period, was 25 Theranos doing any work for -- for pharmaceutical 0473
- 1 companies?

- 2 Not that I recall. Α
  - How about 2014?
- 4 A Not sure. Not really, no.
- 5 In 2014, was Theranos planning on doing any
- work for pharmaceutical companies?
- 7 Yes. We had plans for that.
- 8 Q What plans?
- 9 We had long discussions with Walgreens about
- doing clinical trials at our PSCs, our locations. That
- was part of our project plan. And in the 2010 contract
- 12 and I believe in the 2012 contract, we had called out 13 us working together to do clinical trials.
- 14 And my understanding was that Walgreens' --15 actually (b)(6); (b)(7)(C) and a few other individuals had 16 told us that they actually had built a team at
- 17 Walgreens that was calling on pharmaceutical companies
- and starting -- starting to build the business. And,
- 19 you know, as soon as we start -- we are ready, we could
- 20 start on the clinical trials business.
- 21 The second piece was: We already had these 22 relationships in place that the company had, and now

- that we had a much more potent solution, a more
- 24 powerful platform, our plan was to reengage with those
- 25 customers that we basically had neglected because of 0474
- 1 the work we were doing for Walgreens because that was 2 kind of an all-or-nothing effort for the company.
- 3 So just on that first point, the Walgreens team you mentioned that was focused on pharmaceutical work, did any of Theranos employees have any contact 6 with that Walgreens team?
- 7 I believe there were a couple of meetings 8 that I had with (b)(6); (b)(7)(C) I forget other people. But he used to bring people from a lot of other 9 10 different teams to introduce me to them. And I've met a couple of people from the team. I don't recall the 12 names, but if I hear the names, I'll -- I'll be able to 13 tell.
- 14 Q Did he ever describe which pharmaceutical 15 companies he was targeting?
- 16 He may have mentioned some names. I don't 17 recall which ones. Walgreens actually used to make a 18 point of talking their partnership with Theranos as a 19 key benefit to the pharmaceutical companies when they 20 were negotiating contracts. (b)(6); (b)(7)(C) told me that. That it was part of the package of working with 22 Walgreens.
- 23 And same thing with hospitals. They were 24 negotiating a lot of contracts with hospitals to be 25 part of their ACO, Accountable Care Organizations, 0475
- 1 deals, and they always mentioned Theranos, and a lot of those people wanted to come visit us. Yesterday when I mentioned that not all of my meetings were VIPs, some of them were just meeting people because Walgreens used 5 to bring them, that was part of that -- that effort.

But they did -- they -- they mentioned a couple of names to me, I just don't recall which ones.

Q How would Theranos have to change its 9 offering in a Walgreens store to -- to account for a pharmaceutical trial?

6

7

- 10 11 Well, there are multiple things we could have 12 done. First of all, fundamentally, we didn't have to change anything because when the clinical trial patients come, they usually ask for a lot of these 15 tests we're offering, plus specialty and esoteric 16 tests. Those speciality and esoteric tests, many of
- 17 them we could have brought on commercial analyzers and
- 18 also on finger stick as we needed. We had already done
- 19 that in the past. That was kind of the pharmaceutical
- 20 business we had -- all the projects we had.
- 21 So we had a bunch of assays that were used
- 22 for pharmaceuticals. Now, every clinical trial, my
- 23 understanding, again, I'm speaking from my
- understanding, with pharmaceutical companies, when

25 they're developing a new drug, requires a new marker --0476 1 a new -- assay for a new marker, because they're a 2 novel. You develop those assays, you use them three, six, nine months, twelve months, and then most likely, nobody uses them because they're specific to that drug 5 from that pharmaceutical company. 6 So -- and we had expertise in that. We 7 obviously knew how to develop those assays, especially 8 immunoassays. We were good at that. 9 So was part of the strategy then, that 10 Theranos would -- would develop the assays that these pharmaceutical companies would use? 12 A Over time, yes. 13 Did Theranos do any work to develop any assays for pharmaceutical companies in 2013? 14 15 A No, we hadn't started. 16 Same in 2014? 17 Α Correct. 18 The -- the second point you made about Theranos had existing relationships with pharmaceutical 20 companies, do you remember which companies those were? 21 There were a few meetings that I attended, so 22 I remember those. There was a meeting that I attended with GSK, GlaxoSmithKline. There was one meeting I attended -- one or two with Celgene. I may have 25 attended a couple of other meetings, but those are the 0477 1 ones I had attended personally. 2 Sanofi-Aventis, I had attended a couple of meetings in Europe. I had gone to Europe to do those meetings. But I think I mentioned yesterday in most of 5 those meetings or all of those meetings, I was a fly on the wall because that was early on in my process at 7 Theranos, and I was just learning and being there as an 8 additional executive. 9 So -- but I don't remember the rest. I mean, 10 the company had done work with others. I think we had a project with -- did I mention Centocor? There was a 12 project we had done with Centocor. And that was a very positive project. They gave us a beautiful letter 14 showing how good our technology was. 15 So you mentioned those meetings with GSK, 16 Celgene, and Sanofi. Do you think those were all sort 17 of early on in your tenure with the company? 18 A That's correct. I think 2009 or 2010. 19 BY MS. CHAN: 20 Q Did you have any meetings with them in 2013 or 2014? 21 22 A I personally did not. 23 Q Do you know if anyone at Theranos did? 24 A Not that I knew of. 25 Did -- were you aware of any meetings taking 0478

place between Theranos and any pharmaceutical companies in 2013 or 2014? 3 A Not that I was -- I was a part of. Elizabeth or somebody else was doing that. Again, just like the 5 DOD, if I was not engaged with that part of the business, then I wouldn't necessarily remember on that. 7 Q And so who was responsible for the pharmaceutical services business at Theranos? Well, I mean, it depending on -- depended on 10 how you look at it. Initially when we were engaged with pharmaceutical companies, there was a direct model 12 where we were going to work with them on clinical 13 trials. We used to put our TSPUs on the site, ship 14 them cartridges. They used to run everything, or their 15 doctors or the nurses, whoever. And so that was one 16 model. That happened before I joined the company, and 17 I think, like I mentioned, there were a couple of 18 projects that were ongoing. 19 The other model that I was talking about, the 20 clinical trials at Walgreens, I would have been 21 responsible for that. But that, again, is not, like a 22 special service necessarily to pharmaceutical 23 companies. It's more a joint clinical trial where 24 Walgreens would be the location. Walgreens wanted the 25 pharmacists to play a bigger role. They thought 0479 1 pharmacists was a very underutilized resource they had, and they wanted to bring the pharmacists out. And they 2 thought what we were providing in laboratory services and diagnostic services and with the pharmacists was 5 the killer combo. 6 So there was not much work that we had to do -- I had to do to be differentiated for pharmaceutical services. The contracts could have been 9 signed by us, Walgreens, and the pharma guys, or maybe 10 just Walgreens and the pharma guys, and we would just 11 provide services. 12 Q So I understood your answer to be that you 13 would have been responsible for any of the clinical 14 trials work that you were discussing with Walgreens. 15 What about the other work that you might start up again 16 with the pharmaceutical companies, who would have been 17 responsible for that? 18 We probably would have hired some other 19 person to lead that. 20 O Okay. And then historically, who was 21 responsible for the pharmaceutical --22 Well, historically --23 Q -- company relationships --24 Α Sorry. 25 Sorry. Who was responsible for the

0480 1 p

pharmaceutical company relationships?

Like I said, historically, all the work was

```
done before I joined the company. Elizabeth was the
   CEO of the company at that time, and I think there were
5 40 or 45 people. So she must have been involved would
6 be my guess.
7
         And there were other people -- like I said,
8 it was a small company. So my guess is (b)(6), (b)(7)(C)
         was a point of contact with the technical people,
10 and there were a few other people in those days, I
11 don't remember the names, that were involved with
12 the -- with the work.
13
       Q Okay. But Elizabeth would have been
14 overseeing the relationship?
15
           She would be part of that. We actually had
16 another guy. I forgot his name. He's a -- he was a
    French guy. And we hired him from GSK because he was a
18 VP who used to work for GSK. And when he saw our
   product and he saw, you know, he used it. He was the
20 customer. And then after some time, he said, "I want
21 to be part of what you guys are doing."
22
          And he was a VP-level guy. So he came and he
23 oversaw our relationship. But I forgot -- he was early
24
    on. I forgot the guy's name.
25
         Okay. And he left Theranos sometime before
0481
1
   2013?
2
      A Yes.
         BY MR. KOLHATKAR:
3
4
      O I'm going to hand you what I'll mark as
   Exhibit 246. For the record, 246 is a document
   Bates-stamped TS-000496 through TS-000546. I'll
   represent to you that the company -- that Theranos has
   provided this as the -- as part of the materials that
   were provided to (b)(6); (b)(7)(C)
9
10
       A Okay.
11
                   (SEC Exhibit No. 246 was
12
                   marked for identification.)
13
          BY MR. KOLHATKAR:
14
       Q Have you seen Exhibit 246 before?
15
          Probably not as compiled here, but there's
16 some content here that I may have seen.
17
       O So I understand that the 246 is comprised of
18 a couple of different -- a couple of different things.
19
          So have you seen like -- why don't we start
20 with the cover page. Have you seen the cover page
    before, just the exemplary pharmaceutical reports
22
    from -- exemplary reports from -- sorry, let me
23
   rephrase that and slow down.
24
          Do you see the cover page? It says
25 "Exemplary Reports From Pharmaceutical Partners"?
0482
      A I do.
1
2
          Do you recognize this?
      Q
3
          No, I don't.
      Α
4
          The -- the second page, it looks like a
```

```
document that has the Biothera and Theranos logos?
          Yes, I do see that.
6
7
          Do you recognize that document?
      0
8
      A I don't.
9
      O If you turn to the page ending in 530,
10 there's a document that has the Schering-Plough and
    Theranos logos.
          Do you see that?
12
13
       A I do.
14
       Q Do you recognize that document?
15
       A I don't.
16
       O Turn -- and those are the two in there -- in
17 this one.
18
          You don't recognize either of these two
19 documents?
20
       A I don't.
21
       Q Did you review them during your time at
22 Theranos?
23
       A Like I said, I may have seen bits and pieces
24 of this in other places, but I don't recall reviewing
25 the way it is here.
0483
1
      Q And it looks like I missed one. If you could
   turn to TS-524, there's a document with the GSK and
   Theranos logos on it.
         Do you see that?
4
5
      A I do.
6
      Q Do you recognize this document?
7
      A I don't.
8
      Q Do you have any understanding of -- of who
9
   drafted the reports that appear in Exhibit 246?
10
       A I wouldn't be able to tell. If I --
11 actually, I never saw -- I don't recall -- I don't
12 recall seeing them, so maybe I shouldn't even guess.
13 But no. I don't.
       Q Did you ever hear anyone at Theranos describe
14
15 drafting these reports?
       A No, I don't.
16
17
          BY MS. CHAN:
18
       Q Did you ever send reports that was portraying
19 work that Theranos did with pharmaceutical partners to
20 potential investors or investors of Theranos?
21
          I wouldn't specifically recall if this or
22 something like this was sent to an investor or more
23 than one investor, but it wouldn't surprise me because
24 sometimes you will engage in a dialogue and somebody
25 will say, "Oh, that's interesting. Send me more
0484
   content" or "literature" or "something to read," and we
1
2
   would send them something on that.
         So it wouldn't surprise me. But I don't
3
   recall me sending this, at least. Or if I did,
   somebody gave it to me and I just attached it and sent
5
6 it out.
```

- Q Were there occasions when you would -- you know, somebody would just give you documents and you would just attach it to an e-mail and send it to potential investors?

  A I don't recall. I was just saying that if
- A I don't recall. I was just saying that if something like this that I don't remember and is not my expertise, if I did send it to somebody, then it would be like that. But I don't recall me doing that. It's possible. Yeah.
- 16 Q I'm trying to understand what your 17 practice --
- 18 A Sure.

Q -- is usually.

So if you were sending materials to potential investors, would you, in practice, review them prior to sending them out?

A No, not necessarily. If it is something that I didn't understand, it's like me trying to focus on Chinese letters. You know, I recognize some of them, 0485

but looking at them harder doesn't help me. So if it's
something I didn't recognize, I would just assume if
somebody would send it to me, there's a reason behind
it, and I would send it out.

5 Q Do you recall instances in which you didn't 6 review materials before sending them to investors or 7 potential investors?

8 A I don't recall but, you know, in an e-mail 9 that I reviewed it or not. If I look at something, 10 maybe it will refresh my memory, but I don't recall.

11 Q Why wouldn't you review them prior to sending 12 them out?

A The reason is: Almost every case the
investors we were dealing with were -- we viewed them
as strategic partners. So it was more of information
exchange, not necessarily because of these two reports,
this may change investment -- an investment decision.
It was, you know, either somebody's curiosity or
somebody wanted to think about, you know, in their
business, how this -- Theranos is going to impact their
business.

So it was more of a strategic partnership dialogue rather than an investment dialogue. And at least the investment meetings that I attended, I would say many of the meetings, 90 percent of the discussion 0486

- 1 was around how the two companies could work together.
- 2 Most of these guys that we met with in '14, '15 were
- 3 either entrepreneurs or business leaders. So our
- 4 discussions were more around the impact, how we work
- 5 together.
- 6 And as part of that, they would say -- if
- 7 somebody said, "Send me the document. I would like to
- 8 read that more," then we would just send it to them as

- 9 an informational exchange. So I didn't have to read 10 all of that.
- 11 Q Okay. So you thought that the people that
- 12 you were sending materials to wouldn't be relying on
- 13 the materials to make their investment decisions, so it
- 14 wasn't -- it wasn't worth it to just review it prior to
- 15 sending it to them?
- 16 A I didn't think about that that way. I was
- 17 thinking literally like there's a business partner here
- 18 on the other side and they have asked me for
- 19 information, and we are exchanging information. So
- 20 that's kind of how I was thinking.
- 21 Q Why wouldn't it be important, though, to send
- 22 sort of accurate information out to them?
- 23 A Well, if it was -- if I knew it was
- 24 inaccurate, of course I would not send it out to them.
- 25 So my assumption was that whoever, the scientist or 0487
- 1 whoever, compiled the information is making sure it's
- 2 accurate. I mean, I -- I had no reason to believe that
- 3 there were people working around me who were dishonest
- 4 or working on inaccurate stuff.
- 5 So if somebody sent me something, I would
- 6 absolutely assume it's accurate, correct, and I would
- 7 likely rely on it from -- within my team. I've
- 8 never -- I don't recall any instance where I looked at
- 9 something and I said, "That's false. That's
- 10 inaccurate. Don't ever send me these things." I mean,
- 11 I would have a different conversation with that
- 12 individual.

15

# BY MR. KOLHATKAR:

- 14 Q You can put Exhibit 246 to the side.
  - Did Theranos ever have a contract with CVS?
- A We were negotiating a contract with CVS, but we didn't sign it.
- 18 Q Why not?
- 19 A We were working on it. We were in the last
- 20 stages of signing a couple of -- there were two points
- 21 that I think -- I remember one or two points that we
- 22 were trying to nail down and negotiate, but we were
- 23 pretty close to signing it.
- Q When were you pretty close to signing a
- 25 contract with CVS?

- 1 A And I may be getting the time not right, but
- 2 I would say end of '14 or '15 time frame is the
- 3 partnership between -- the dialogues between us was
- 4 very strong. We had both strong interests to work
- 5 together. And so I would say, like, '14, '15 time
- 6 frame.
- 7 Q Did you ever represent to any investors
- 8 that -- that you had a contract with CVS?
- 9 A No.
- 10 Q Did you ever hear Elizabeth Holmes say that

- 11 to any investors? 12 A No. 13 We have talked about the financial model a 14 little bit. And did you ever include a rollout in CVS 15 as part of your financial model? 16 A In some cases, I may have -- you know, I 17 had -- in different models, I used to have different 18 names based on -- sometimes I would say 19 "Walgreens/Safeway" or I would say 20 "Walgreens/Safeway/CVS/ --" In some models, I did use 21 these names interchangeably. That we would deploy with 22 somebody at some point, we just didn't know which 23 partner yet. And then at some point, I just said 24 "other." 25 Because again, we didn't know what the 0489 1 cadence would be with which partner and how fast we would deploy. So Walgreens was kind of in the public and -- it was in the public domain, and we had a good 3 idea what we were doing with them, but with others, I 5 would just say "other." And would -- would you share that -- that 6 7 sort of "other" category with investors or potential 8 investors? 9 Well, it was in the model, so they would see A 10 it. Yes. 11 Q Did you ever -- when presenting the model to 12 investors or potential investors, did you ever 13 represent that the model was based only on contracts 14 signed and in place? 15 A We had some projections in the model or some 16 assumptions in the model that were based on the 17 contracts that we had signed. So I think I had put a comment in there. I was in one of the meetings where 18 19 somebody had said -- looked at the balance sheet and 20 said it was one of the investors. I forgot which one. 21 It may have been BDT, but I forgot again. That -- they 22 were advising me on how to improve the model. 23 And I said, "You know, I don't know how to 24 recognize the value of our soft assets. We have a ton 25 of IP and patents, and also the fact that we have these 0490 1 contracts. When I look at other companies, they always 2 have some intangible line item there. So how does that 3 work?" 4 And he said, "Well, we need to figure out how to value all those things," and I had a discussion with the board around that too, "but let's put a comment here that tells people that we do have these contracts 7 8 so they know and they remember." So that's kind of where it came from. So I
- 11 the model somewhere.
  12 Q I guess my question is just more generally,

think I put a comment in the balance sheet section on

- 13 you know, when presenting the -- the model's revenue
- 14 projections, did you ever explain that this -- that the
- 15 model's revenue projections were based on contracts --
- 16 it was based only on contracts that Theranos had in place?
  - A I think there was a note in the financial
- 19 model. I don't think -- again, I would say, you know,
- 20 I don't think of that as -- as a financial projection,
- 21 but I would say in the financial model, I did have a
- 22 note that said, "These numbers assume that the only" --
- 23 "only the contracts signed. We don't have to sign new
- 24 contracts in order to hit these numbers."
- Q What's the difference between a model and a 0491
- 1 projection?

- 2 A Well, I think we talked about that. I don't
- 3 know what a -- projections are, but I know what a model
- 4 is. I shared that with you yesterday. That a
- 5 financial model is where I'm still compiling a lot of
- 6 information. I have all the assumptions right here.
- 7 I'm using that as a financial tool. And you can just
- 8 modify the numbers to see the impact of, you know,
- 9 changes in assumptions, changes in the rollout
- 10 schedule, changes in whatever assumptions one wants to
- 11 make to see what's the impact on the business.
- So I was using that as more -- to me, a model
- 13 is more like a planning tool rather than a financial
- 14 statement, I would say.
- 15 Q So you have no understanding of what a 16 projection is?
- 17 A I think projection is a -- is a fairly --
- 18 clearly technically defined financial term, which is
- 9 why I don't like use it -- I don't like using it. I
- 20 used to usually just say "financial model" because to
- 21 me, that was more explicit that it is a model.
- 22 Q You have an MBA; correct?
- 23 A Yes. Unfortunately, I do.
- 24 Q Did you learn about financial modeling in --
- 25 while you were getting your MBA?
- 0492
- 1 A I probably did. I don't recall. I did take
- 2 classes in finance, but not my strongest subject.
- 3 Q In any of your coursework, did you gain an
- 4 understanding of what a projection was for a company?
- 5 A I probably did, but like I said, I don't
- 6 remember what exactly it was, which is why I didn't
- 7 want to use that term and used "model" instead.
- 8 Q Do -- do you recall ever using the term
- 9 "projection" when referring to the Excel spreadsheet
- 10 that you called the model?
- 11 A I may have -- when -- when I was creating the
- 12 model, either me or somebody may have put "projections"
- 13 in the title in one of the spreadsheet tabs. But the
- 14 overall Excel spreadsheet, the content, I was referring

15 to that as the model. 16 So yes, the word "projections" may show up in 17 the spreadsheets, but I was not focusing on those. I 18 was focusing on -- more on the assumptions and the 19 numbers. 20 Q Sure. My question was: Did you ever call 21 the model a set of projections? 22 A I don't think I ever did. And if I did, it 23 was probably to somebody who already knew the purpose of what the model was, and I may have used it 25 interchangeably once in a while. But in general, I 0493 1 would make -- make sure that it's -- it's a model. 2 BY MS. CHAN: 3 O Who was working with you on the financial model? 5 A Well, the model actually had a long history. 6 I created the first version of that working with, I 7 believe, Safeway first and then Walgreens separately. And then as we started evaluating the business --9 because obviously in 2010, we didn't know much about 10 the business, the lab testing and -- and other details. So (b)(6); (b)(7)(C) 11 at Safeway actually spent a 12 lot of time educating us on the lab industry, and then so did Walgreens. When we had met both of the 13 14 companies, they knew a lot about the lab industry. 15 They clearly was -- were looking at it. 16 And Walgreens actually had told us during 17 those early modeling exercises that they had spoken 18 with dozens of companies. They also had partnered with LabCorp at one point. So they had been interested in this market. So they had a lot of data. So the early 21 models came from my work with Walgreens and Safeway. 22 Around 2010, I started -- and 2011, I started 23 doing my own research to educate myself on the 24 industry. Some of assumptions in the model, as you 25 probably noticed, came from the CDC's website. For 0494 example, how many EMR visits in the U.S. and how many 1 ICU beds. So I got that data from there. 3 And -- and over time, it was raw data coming from the field as I learned, you know, how much -- how much dollars per requisition we were making from the field. So as I -- over time, I think it was more input from a lot of people. As the information came into me, I would, you know, update the model and keep it 9 updated. 10 So you mentioned that either maybe you or 11 somebody else that was working on it would put 12 "projections" on the top. So I was just wondering who 13 at Theranos was working on the model with you. Well, (b)(6); (b)(7)(C) 14 had provided me -- she used 15 to provide me balance sheets because balance sheets, she just drew out from the QAD system. So there were

```
some headers that she had provided me, and I had copied
18
    and pasted those headers across all three -- or two
19
   other tabs at some point.
20
          And then, like I said, I had given that model
21 to the consultants at BDT, and they made a bunch of
22
    changes to clean the model up. Formatting. I had a
23 lot of typos. I also had a lot of acronyms, like
24 Normandy and other things in the model. I remember in
25 one meeting, I had a word called "killer software
0495
   engineers." And the board -- some people in the board
1
   thought I really meant killer software, like in killer
   software. And "killer software" means really good
4
   software engineers.
5
         So I had to -- these guys came and cleaned up
   a lot of the model. So they changed the headers and
   changed other things in the model.
7
         Was there anyone else from Theranos who was
8
9
   working on the model while you were working on it?
10
       A I don't think so.
11
       O
          Did --
12
       A Like -- sorry. Nobody with direct access to
13 the model. I don't think anybody else modified it.
14
          BY MR. KOLHATKAR:
15
          I want to turn to just your understanding of
    Theranos's interactions with the FDA.
16
17
          MR. KOLHATKAR: Why don't we take a break
18 right now. We'll go off the record at 11:03 a.m.
19
          THE WITNESS: Okay.
20
          THE VIDEOGRAPHER: Off the record. Please
21 don't forget your mics.
22
          (A brief recess was taken.)
23
          THE VIDEOGRAPHER: Rolling.
24
          MR. KOLHATKAR: We're back on the record at
25 11:12 a.m.
0496
         BY MR. KOLHATKAR:
1
2
      Q Mr. Balwani, just to confirm, you -- you
3
   didn't have any substantive conversations with the
   staff during the break; is that correct?
5
      A
          That's correct.
          So like I said before the break, I'd like to
6
   ask you a few questions about Theranos's interactions
   with the FDA. I think I interrupted an answer to one
   of your earlier questions when you started talking
about a -- a December 2014 conversation with (b)(6):
   (b)(6); (b)(7)(C)
11
12
          MR. COOPERSMITH: I'm not sure it was
13 December '14, by the way, but --
14
          BY MR. KOLHATKAR:
15
          Oh, I'm sorry. You mentioned a December
   conversation with (b)(6); (b)(7)(C)
16
          Do you remember when that conversation took
17
18 place?
```

- 19 Yeah. It may have been around December 2014 20 or November. It was towards the end of 2014. And it 21 was not my conversation, it was Ms. Holmes's. 22 And did she update you about the 23 conversation? 24 She mentioned that briefly, and then we 25 talked about that later again. 0497 1 Q Okay. And what did she tell you about the conversation? 3 A She said that the discussion with  $\binom{(b)(6)}{(b)(7)(6)}$ 4 (b)(6); (b)(7)(C) went really well, very friendly. It was 5 actually a courtesy call, from what I remember, around the holidays. She mentioned that it was literally like somebody calling to wish a Merry Christmas or something 8 like that. 9 And as part of the conversation, they were 10 talking about the future, what we -- Theranos was going 11 to do. Actually, that's why -- maybe December, that's 12 why I remember, it was a holiday call. And they had 13 looked at our CTN data and they thought our hematology data looked good. We had submitted our CTN for a general clearance from the FDA. That means for any 16 test across the board. 17 And the FDA thought our data for one of those 18 categories, hematology, looked good. They could give us clearance for hematology if we wanted, just hematology, or we could submit additional data and then 21 get a general clearance for -- for all of the assays. 22 So that was my conversation. 23 Q And did you understand at any point in 2014 that the FDA believed Theranos needed to obtain 25 clearance for its CTN before using it in 0498 commercial lab testing? 1 2 A I mean, there was a dialogue we had with the 3 FDA in 2013, and '14, and '15 where we were updating them on how we were not distributing CTNs. So as part of the dialogue, there were some individuals who made that comment, but it was not -- we didn't see that as an official position of the FDA at that point. 8 I guess -- I mean, I want to focus on kind of what your personal memory was. Were you ever present 10 for any comments like that from the FDA? 11 A Personally, no. 12 Who relayed those comments to you? 13 I think it will be privileged. It was 14 company counsel. 15 Q Oh, okay. And again, this is the area you
- 18 A Yeah. 19 -- and so don't be shy about -- to raising

what you were told --

17

20 that issue if it becomes one. I'm going to try and ask

16 want to be careful just relying on sort of, you know,

questions that -- that don't infringe on your company 22 counsel. 23 I guess at any point in time in 2014, did you 24 become aware that -- that the FDA was taking the 25 position that the CTN needed to be cleared? 0499 1 A Cleared for what? 2 Cleared for -- before it could be used for 3 commercial blood testing? 4 As a part of the LDT and the CLIA lab or for us to commercialize it outside of the CLIA lab? There 5 were two big differences. O Sure. For using it to collect blood from Walgreens and then shipping it back to the CLIA lab? 8 9 A No. 10 O You mentioned the other -- the other use. So 11 you had an understanding that -- what was your understanding with respect to the FDA's requirement 13 concerning commercialized use of the CTN? 14 Yeah. So if we were to distribute or 15 commercialize, or the technical term for that is 16 "market," you need a marketing -- before you market 17 something, you need approval from FDA or a clearance. 18 If we were to do that, my understanding was: There 19 were some versions of the CTN for which we needed a 20 510(k) clearance, which is, again, a technical term the 21 FDA uses. There are three different classes. So my 22 understanding was: For one of those, we would need a 23 510(k). 24 What was your understanding about those 25 different classes? 0500 1 This is going to be outside of my league, but 2 I will give you the business understanding of this. There were -- there are at least three classes of

There were -- there are at least three classes of
device clearances the FDA has, Class 1, 2, 3.

Class 1 are designated as the least risky
devices. And you would still need to ensure the
quality is good, you need to generate the data, but
then you file that on the FDA's website as a Class 1
device. The FDA can still come and audit you and take
a look at the quality, data, and this and that, but you
don't need to submit a 510(k) or clearance for -- to
the FDA for that.

13

22

company claims are very similar to other devices in the market. And by the way, the FDA also defines an assay as a device, is my understanding. But Class 2 devices is assays which are higher risk where the FDA, but other companies have gotten clearances from the FDA on those tests or devices, similar tests or devices, and you are trying to show that our device is equal to everybody else's device.

And Class 2 devices are devices which the

And you generate data, and you submit it to

the FDA. They look at the data and they give you
 510(k) clearance for marketing that device. And you
 can commercialize it then in the U.S. We're talking
 0501

1 about the U.S. here.

And then Class 3 devices are novel devices
that don't have a predicate in the market yet. These
are brand new or highest risk devices. And the FDA
will -- usually requires PMAs or what is known as
premarket approval. That requires more data, more
studies. A similar process of the 510(k), but my
understanding is: This requires more data and more
studies because there's no predicate to these devices
in the market, is my understanding.

- 11 Q And, I guess, did you understand that the --12 the TSPU would fall into that Class 3 --
- 13 A No, sorry.
- 14 Q What was your understanding about how the 15 TSPU would fit into that framework?
- A So it depends on the assay. Depends on the test. In general -- I'll talk about the TSPU in a second. In general, you can have a device, and if you're running a -- what is considered as a Class 2 assay, then the whole system becomes Class 2 cleared. But if you do a Class 3 assay, like HIV, then the whole system gets a Class 3 clearance. So it depends on the assay.
- 24 So the TSPU itself -- by itself doesn't do 25 anything. You need chemistry or an assay to run it. 0502
- 1 So it depends on the assay whether it's Class 2 or
- 2 Class 3. In some cases, it would have been Class 2,
- 3 like our HSV1. And a whole bunch of assays are Class
- 4 2. Most of them are Class 2. Maybe I shouldn't say
- 5 "most," but a lot of assays are Class 2.

And then there are some assays which the FDA classifies them are high risk. Like HIV is -- my understanding is that's Class 3. And then you -- when you submit it, then the FDA looks at it differently.

10 And from what I understand, the audit it performs on 11 sites is also different.

12 Q What was your -- how -- what was your 13 understanding of how the nanotainer fit into that -- in 14 that classification? Was it sort of similar, it 15 depended on what -- what sort of chemicals were 16 contained in the nanotainer and what assays they would

to contained in the nanotainer and what assays they we be used for or was the nanotainer different?

18 A The nanotainer was different. Still -- you

still have the same classification, Class 1, 2, and 3.But since the nanotainer had predicates, and the

- 21 nanotainer is a blood collection and transportation
- 22 device. Right? And it had predicates in the market.
- 23 There were other devices available you could use, which
- 24 you can capillary blood, you know, do exactly what the

```
25 nanotainer was doing.
0503
         So because of that, it would be classified as
1
2 a Class 2 device or a Class 1. There were other
3
   differences. And we had -- like I said, we had two or
4 three different types of nanotainers, probably more.
5 But some nanotainers are Class 2 because of the
   complexity of what is going -- what is inside the
   nanotainer. Again, this is my understanding, so
8 technically -- maybe -- there are maybe technical words
   to describe it. Class 2. And then there's one
10 nanotainer -- or some nanotainers which are Class 1.
   And this is also how the predicates are registered with
11
12 the FDA.
13
          So there are some capillary tubes that you
14 use to collect blood, which are in general, I'm going
15 to make a general guess here, they are EDTA nanotainers
16 or EDTA-type devices. EDTA is a type of anticoagulant
17 that you use in a tube to make sure the blood doesn't
18 clot. And this is, again, my business understanding,
19 right, so not scientific.
20
          But there are different types of
21 classifications based on how -- what is the
    anticoagulant and what are the other things that you
22
   are doing in the device -- in the -- in the collection
24 device. I don't know if I confused you more or not,
25 but --
0504
          I guess let me just ask it more simply. Did
1
   you ever tell investors that the nanotainer was a Class
   1 device?
4
      A There was a type of a nanotainer that was a
5
   Class 1 device. Yes.
      Q Again, my question is more simple than that.
   Did you ever --
8
      A Oh, sorry.
9
          -- tell investors that -- that the nanotainer
      O
10 was a Class 1 device?
11
       A I don't recall that.
12
          Did you ever explain to any investors that
13 the -- that the nanotainer could be considered a Class
14 1 ---
15
          MR. COOPERSMITH: Hold on. When you say "the
16 nanotainer," he said that there were several different
    types of nanotainers. So maybe you need to specify,
18 like, a nanotainer, the nanotainer, a particular type
19
   of nanotainer.
20
          BY MR. KOLHATKAR:
21
       Q Did you ever tell investors that nanotainers
22 could either be classified as Class 1 or Class 2,
23
    depending on the use?
24
          It is possible, but it would be talking about
25 the future. Again, keep in mind that the Class 1 and
0505
```

Class 2 and this whole discussion comes into play if we 2 are distributing and commercializing nanotainers away 3 from our laboratory. Our position at that point was: As long as we are using this in our CLIA lab, it was part of the LTD.

So the FDA submissions and Class 1 and Class 6 7 2 classification didn't apply to that model. It only 8 applied to -- if we distributed the nanotainers in the 9 field. And at some point, we would have. This is why 10 we were seeking the 510(k) clearance is that at some point, we wanted to distribute the nanotainers. And at 12 that point, some would be Class 2 and some would be 13 Class 1, depending on the nanotainer. And the ones 14 that were Class 2 clearly did have FDA clearance.

And putting this context to the business 16 model, if Theranos's business model had evolved to sort 17 of that Phase 2 Walgreens with distributing TSPUs, was 18 it your understanding that it would have to obtain 19 clearance for its nanotainers -- for any of its 20 nanotainers?

15

9

17

21

2

21 A Oh, it's actually more complicated than that. 22 If you are distributing the device -- I'm talking about 2012 and beyond now, right, our position or our 24 understanding was: Once you file an assay to the 25 FDA -- let's assume we were going to do 20 assays with 0506

1 Walgreens, right, all 20 have to be cleared by the FDA. 2 That's the 510(k). Some didn't -- some -- even assays were Class 1 assays. They didn't require 510(k) 4 submissions. They are low -- considered low risk. I think cholesterol may be one of those, but I'm guessing here. But there are some assays which you generate data and you don't file with the FDA just like 8 Class 1 devices.

So it depended on the assay. But let's 10 assume we picked 20 assays. Let's assume they're all Class 2 assays. When you submit those Class 2 assays 12 to the FDA, we would have submitted our nanotainer as part of the submission, which is what we did with HSV1, 14 and the entire system gets a clearance. So you get the 15 TSPU cleared for that assay, you get the assay cleared, 16 and then you get the CTN cleared.

Okay. Again, I'm being careful not to 18 inquire about what the substance of any advice from counsel was, but in analyzing what you should tell 20 investors about -- let me rephrase it just with the caveat that I'm not -- I'm not asking what any advice 22 was.

23 Did you ever receive advice from counsel on 24 what you should disclose to investors about Theranos's 25 interactions with the FDA? 0507

1 A Not specifically.

Do you know if anyone else at Theranos did?

```
3
      A I wouldn't know.
4
         BY MS. WINKLER:
5
      Q Do you know whether Ms. Holmes ever received
   advice from counsel about what to disclose to investors
6
7
   about Theranos's interactions with the FDA?
8
      A I wouldn't know. If it was something
9
   contrary to what I believed, we would have talked about
10 it.
11
       Q I'm just simply asking you if you know
12 whether she received any advice.
          I don't know.
13
14
          BY MR. KOLHATKAR:
15
         And I guess more broadly, did -- did you ever
16 receive any advice from counsel on what should be
17
    disclosed to investors in the C-2 round?
18
      A No, we didn't.
19
          BY MS. CHAN:
20
          You attended --
21
          BY MR. KOLHATKAR:
22
       O Do you know --
23
          MS. CHAN: Oh, sorry.
24
          MR. KOLHATKAR: Sorry.
25
          BY MR. KOLHATKAR:
0508
1
          Do you know if Ms. Holmes did?
2
         To the best of my knowledge, I don't know.
3
   Sorry, I don't know who to answer. Sorry.
4
         BY MS. CHAN:
5
         You attended meetings with the FDA; right?
6
      A I attended a few meetings in 2012 and 2013,
7
   but I was not participating because I didn't have the
   background back then. In most of these meetings, I
   went there to learn or what I thought was out of
10 respect for the FDA because we only had one or two
11
   people from our company going and the FDA had more.
12
          But -- and even in 2014, I believe I would
13 attend a meeting, one or two meetings. There was one
14 meeting where (b)(6); (b)(7)(C) had visited us in Palo
15 Alto. It was a great meeting, very positive, friendly.
16 Around Ebola. I attended that meeting. But in
17
    general, I was not -- outside of those meetings, I was
18 playing either no or little role in communications with
19 the counsel, and the strategy, and what -- what -- the
20 FDA letters that were coming back and forth, the
21
   dialogue, I was not part of that.
22
          So you don't recall any discussions during
   the meetings in 2013 and 2014 where the FDA told you
   and others at Theranos that no matter the fact that
25 Theranos was not distributing the CTNs or the TSPUs,
0509
   that both of those devices needed to be cleared or
1
   approved by the FDA?
3
          For what purpose? As CLIA LDT?
4
          No, for patient testing.
```

- 5 A Yeah, but patient testing is different when 6 you're doing it as an LTD versus a distributing --7 putting a TSPU in the store.
- Q Do you recall any discussions with the FDA
  where the FDA told you or others at Theranos that the
  TSPU and the CTNs were not LDTs and -- not
  lab-developed tests?
- A When using in the CLIA lab context. Like I said, we had dialogue with the FDA. Somebody may have commented without understanding it, and our job was to share with them what we were actually doing because there was some miscommunication that was -- that was created initially when we engaged with the FDA.

But we also had communications from the FDA clearly written that said as long as we are using this in our lab, it is an LDT. I remember that. So that was a clear communication that we had with the FDA.

## BY MR. KOLHATKAR:

22

8

- Q Who do you remember having that confusion about that they -- you said there might have been one or two members that you needed to educate.
- A Yeah. Initially, when we met with the FDA, the very first meeting in 2012, we had a meeting with them where they said somebody had informed them that we were distributing our devices to other labs. And we said, no, we were not doing that. So we had to do some work to be able to tell them exactly what we were doing.

### BY MS. CHAN:

- 9 Q And you don't recall any discussions with 10 the FDA where they told you that the TSPU and the CTNs 11 needed to be approved or cleared by the FDA before 12 being used in patient testing?
- A In the CLIA lab or in the field? There's a big difference. When you are doing -- I'll explain to you the difference. When you are using --
- 16 Q Let -- let me just rephrase the question, 17 then, because I don't -- I know you're trying to draw a 18 distinction, but I don't think the distinction matters 19 here.

I'm talking about in the context of Theranos
working with Walgreens on performing patient testing on
samples being sent from Walgreens stores to Theranos,
you were not aware that the FDA told Theranos that the
TSPU that was being used to perform that patient
testing and the CTNs that were being used to collect
0511

- 1 the sample and send to Theranos's lab that those needed
- 2 to be cleared and approved before use?3 A Like I said, it is possible that during the
- 4 dialogue that somebody at the FDA made that comment,
- 5 but there were also comments made by the FDA that us
- 6 using those -- in that scenario that you just

```
described, picking up a sample, shipping it to the one
   CLIA lab in Newark, running those TSPUs in Newark was
9
   an LDT.
10
          Now, the FDA had enforcement discretion over
11 that too, but that was also communicated. And that was
12 the dialogue that we had back and forth with the FDA on
13 how the FDA wanted us to pursue that. If -- if the FDA
14 had that official position, we would have received a
15 warning letter. But like I said, we were in deep
16
    engagement with the FDA and communicating with them
17
   very frequently.
18
       Q Well, you understand that at some point in
19
   2015, the FDA conducted an inspection of Theranos --
20
       A Yes --
21
       0
          -- right?
22
         -- I was there.
23
          And as part of the -- do you understand what
24 a 483 is?
25
       A I do.
0512
1
      0
          What is it?
2
          It's a form that the FDA creates after an
3
   inspection has concluded that includes the observations
4
   and inspection.
5
      Q And are you aware that one of the
   observations on the 483 was that Theranos was using the
6
7
   CTNs without approval or clearance from the FDA?
      A No. There was only one CTN, not all CTNs
8
   that were identified. There was one CTN -- I mentioned
10 that earlier already. That there was a lithium heparin
   CTN with a gel inside it that the FDA said their
12 position at that point was that that should require
13 clearance and -- a 510(k) clearance.
14
       Q Okay. So did you know prior to 2015 that the
15 FDA had a position that that li hep -- what is it?
16 Lithium --
17
       A Lithium heparin.
          -- heparin CTN needed clearance from the FDA
18
19 before use in patient testing?
20
          We had -- like I said, in a dialogue,
21 sometimes the FDA made a comment, but also, the FDA
22 knew that we were already using that as part of LDT.
23 And we've got a letter from FDA -- meeting notes in
24 which the FDA said as long as samples are being shipped
25 from Walgreens PSCs through Theranos's central lab, the
0513
1
   FDA considered that as LDT and had enforcement
   discretion, but they recognized that it is an LTD, and
3
   they didn't tell us to stop.
4
         So it was a dialogue. Sometimes some people
```

would make the statement, but at the same time, many of the people that we were engaged with would make the

opposite. That we were working with them in good faith. At any point if the FDA wanted us to stop doing

5

9 it, we would have stopped. And at -- and at some point 10 we did. 11 BY MR. KOLHATKAR: 12 So when Theranos stopped using the 13 nanotainer, was that because of that FDA audit we were

Well, one nanotainer, one of the two, yes, 16 because of the FDA audit. Because when we talked to the FDA and we asked them, "Do you want us to stop

18 using the nanotainers," and they said, "It's your

19 decision, you know. You decide."

14 just talking about?

15

17

4

6

23

20 And so we stopped one, but at the same time 21 now that we were making this transition to fully 22 FDA-quality systems, it was also useful for us to stop and -- and do a bunch of other operational details in 24 the company.

25 After the Wall Street Journal article came Q 0514

1 out, do you recall Ms. Holmes making a statement publicly that Theranos voluntarily stopped shipping its 3 nanotainer?

- Technically, yes. That's correct. A
- 5 O Why is that technically correct?

something, you get a warning letter, and we didn't receive -- the FDA didn't ask us to stop. They issued a citation on 483 that this was their position. We 10 could have disagreed with their position, and companies do disagree with the FDA's position. Our position with 12 the FDA always was: We don't want to disagree with the 13 FDA. We wanted to be the company that would be the 14 poster child in the lab industry that was taking all

Because when the FDA wants you to stop

15 of our LDTs and submitting them for 510(k) clearance. 16 So we didn't want to be in a position where 17 we are doing something that anybody at the FDA would

18 say we shouldn't be doing.

- 19 Q I guess, so in -- in your -- in your opinion, 20 the -- stopping to use the -- the -- that specific 21 nanotainer after receiving a citation was -- was a 22 voluntary action?
  - Yeah, we had actually stopped -- sorry.
- 24 That's your understanding? Yes?
- 25 No, your question, I'm correcting your 0515
- question. We had stopped using CTNs before the 1
- citation came in. In August -- end of August when we
- met with -- when we had a call with the FDA, we
- 4 informed them that we stopped -- we are stopping using
- 5 CTNs, and we started gradually removing them out. And
- 6 I think most of them, we had already stopped -- stopped
- 7 by September -- mid-September or sooner. And then there were a few tests remaining that we removed by
- September 21st or 22nd. So we started the process
- 10 before the 483 came to us.

11 Okay. So I guess it's your testimony that 12 Theranos's decision to stop using its nanotainer in 13 2015 was entirely voluntary? 14 Yes, that is my -- that's my understanding. 15 Q I'm going to hand you a document that's been 16 previously marked as 230. 17 Do -- do you recognize Exhibit 230? 18 A I'm not on it, but it seems like a letter 19 from someone at the FDA to our counsel. 20 Q Do -- do you know if you reviewed this letter 21 after it came in? 22 A I may have. I don't recall. 23 If you turn to the third page, the page 24 ending in Bates stamp TS-0992590. 25 A Yes. 0516 1 And look at the first full paragraph. And let me know when you've had a chance to read that. 3 There's a footnote that goes along with it. 4 (Witness reviewing document.) Okay. 5 And do you see the sentence that says, O "Please note that without clearance or approval, you 6 7 cannot continue to ship these collection devices or nanotainers to your sample collection sites for use with tests currently run in your" -- "in your 10 laboratory"? Do you see that? 11 A I do. 12 Q Was that contrary to your understanding of 13 the FDA's position at this time? 14 From other sources at the FDA, yes. 15 Q What other sources? 16 There was a letter that we received from the 17 FDA, meeting minutes in 2013, where -- end of 2013, I 18 believe, where we had attended a meeting, and we had discussed exactly this point with the FDA's -- had (b)(7)(C) 19 20 (b)(6), (b)(7)(C) for -- in the IVD division. And he had 21 said -- and that meeting minutes recognize that the FDA 22 recognize us as LDTs. 23 Q Okay. So you understand that communication 24 took place in 2013? 25 A Correct. 0517 1 Did this communication update your understanding in any respect? 3 A No. 4 O Why not? 5 Because like I -- like I said earlier, companies that work with the FDA -- my understanding is: You engage in a dialogue with the FDA all the time, and you have disagreements around your submissions to 9 the FDA all the time. Nothing unusual here. 10 So the fact that the FDA told us something 11 before which was in line with what we thought we were doing, and somebody at the FDA is making a statement

```
13 here which is not in line -- there's a line here that
14 says, "We are happy to discuss this issue with you
15 during a call." So it would be a very typical thing for
16 us to be able to discuss this with them and then
17
   obviously work with our counsel to see what's our
18 counsel's position and proceed accordingly.
19
          MR. COOPERSMITH: Are you going to ask him a
20 little about the second paragraph of the letter?
21
          MR. KOLHATKAR: You can -- you can ask any
22 clarifications at the end.
23
         MR. COOPERSMITH: Where it says it doesn't
24 bind the FDA?
25
          MR. KOLHATKAR: Sir, I'm happy to let you ask
0518
1
   any clarification questions --
2
         MR. COOPERSMITH: Okay.
         MR. KOLHATKAR: -- at the end. You can use
3
4
   any of the --
5
         MR. COOPERSMITH: Well, I just want to be
   complete with the testimony.
7
         MR. KOLHATKAR: Sure. I'll give you --
8
         THE WITNESS: Actually --
9
         MR. KOLHATKAR: -- the opportunity.
10
         MR. COOPERSMITH: Okay.
11
         THE WITNESS: Actually, that's a good point
12 here. I mean, this actually --
13
          MR. KOLHATKAR: Sir, there is no question
14 pending.
15
          MR. COOPERSMITH: I think he's allowed to
16 finish his answer if you're -- if the record is
17 misleading based on what you've asked.
18
          MS. CHAN: I think he was done with his
19 question. At the end of today, if you want to ask your
20 additional questions, you can do so.
21
          THE WITNESS: But I would like to highlight
22 that this point here clearly says here it does not
   constitute an advisory opinion and does not bind or
24 otherwise obligate or commit the agency to the views --
25 So it's pretty clearly expressed here.
0519
1
         BY MR. KOLHATKAR:
2
      Q Okay. Did you -- did you -- but do you
   recall reviewing that at the time?
4
      A No, I don't. I also don't recall reviewing
5
   the rest of it, but it's here.
6
         BY MS. CHAN:
7
      Q Do you recall attending a meeting a few days
   after this letter was received by Theranos in which the
9 FDA told you again that Theranos should not be shipping
10 these CTNs or using them for patient testing without
11 clearance from the FDA?
12
       A I don't recall, but if I see some
13 documentation, then it may refresh my memory and I
14 could comment.
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```
15
          BY MR. KOLHATKAR:
16
       Q I'm going to hand you another document that
17 I'm marking as Exhibit 247.
         For the record, Exhibit 247 is a document
18
19 Bates-stamped THPFM0001145643 through 1145647.
20
                   (SEC Exhibit No. 247 was
21
                   marked for identification.)
22
          BY MR. KOLHATKAR:
23
       Q We spoke a little yesterday about some of
24 the -- Theranos's media strategy.
          Do you recall that conversation generally?
25
0520
1
      A Correct. Actually, if you don't mind, can I
2
   read this --
3
      Q Sure.
      A -- real quickly. (Witness reviewing
5
   document.)
6
         Okay.
      Q Do you recognize Exhibit 247?
7
8
          I do.
9
      Q What is it?
10
       A It seems like an e-mail communication between
11 Ms. Holmes and a reporter at -- or somebody at
    fortune.com, I assume a reporter, that she forwarded to
13 me at the end.
14
         And does -- does it generally appear from the
15 conversation that the -- the reporter is asking
16 questions or asking for follow up on specific topics,
   and then receiving some responses from Ms. Holmes?
17
       A I didn't read the whole thing, but it seems
18
19 like a communication between them. I can read through
20 it, if you want me to.
21
       Q Well, why don't -- I don't want -- you don't
22 need to read the whole thing necessarily. But if you
   look at the page ending in THPFM0001145645 --
24
          Okay.
25
          -- Number 4. Let me know when you've had a
0521
1
   chance to read that.
2
      A (Witness reviewing document.) Okay.
3
      Q I guess, generally, did you have -- do you
4 recall having a discussion with Ms. Holmes at any point
   in the summer of 2014 about how to describe Theranos's
   devices for -- for media use?
7
          No, I did not.
8
          Do you remember Theranos discussing
   internally whether to describe things as analyzers,
10 devices, or analytical systems?
11
          That was a common discussion we used to have,
12 but I don't recall if we had it in this summer or what
13 time frame.
14
       Q And, I guess, apart from the time frame, what
15 was the discussion around the use of analytical
16 systems, analyzers, or devices?
```

- 17 Just properly describing our solutions 18 because just saying "devices" sometimes didn't encapsulate an analytical system that includes software 20 on the Cloud because that was always part of the TSPUs. So it was always trying to find the best way to 22 describe our solution. 23 Did you have a view of what the best 24 descriptor was for Theranos's solution? 25 A No. Honestly, I didn't. I mean, I like the 0522 1 word "systems" better because I'm a computer software guy and I wanted to make sure that software is part of whatever description we had, but I didn't have a strong opinion. At least I don't recall having one. 5 If you look on the page ending -- do you -do you understand his question here to relate to sort 7 of how to -- how to approach that issue of describing 8 the analyzer or the device? 9 A Some analyzer or some device that he saw. I 10 don't know what he's referring to here. 11 Do you see the response from Ms. Holmes at 12 the bottom of 644, the -- the paragraph that begins, "With respect to the device size below, the best comparison might be to the" -- "to the NeXT computer 15 desktop"? 16 A Yeah, I see that. I see that. Were you familiar with the NeXT computer 17 Q 18 desktop? 19 A Yes. I used to own one. On college campus, 20 I used to use it all the time. 21 What does it look like? 22 It's a cube, literally, about that big 23 (indicating), that big (indicating), about that big 24 (indicating). Sorry, should I --25 Sure. Yeah. I guess could you describe --0523 1 Α It was about --2 -- what your gesture was. A -- 18 inches wide, I mean, since it was a 3 4 cube, I would just say all dimensions were 18 inches. 5 Q Did you ever compare Theranos's TSPU to the 6 size of -- of a NeXT computer? 7 A I personally used to because, again, my computer science background. So internally, we used to talk about some devices we will have as small as the 10 Apple McIntosh one day, so I used to use those examples 11 often.
- Q The -- if you turn to the first page of
  Exhibit 247, there's a follow up from Ms. Holmes on
  June 9, 2014, at 1:09 a.m.
  Why don't you read the paragraph beginning
  "We've been spending time --"
  A "We've been spending time" --

I'm sorry, you don't have to read it out

19 loud. 20 Oh, sorry. Α 21 I mean, read it to yourself and let me know Q 22 when you've had a chance to review it. 23 A Thanks. (Witness reviewing document.) 24 25 Do you see the sentence that begins, The 0524 1 analytical systems we're scaling around are somewhat bigger than those that mentions, dash, analytical systems look like large desktop computers, dash, or analytical systems look much smaller than in conventional laboratories or have a smaller space requirement than conventional laboratories, dash, it's fine, paren, and not inaccurate in follow up to the below? 9 A I see that. 10 What analytical systems was Theranos scaling 11 around at that time? 12 A In our lab at that time? 13 In your lab at that time. 14 A We had, like I said, the modified systems, we 15 had our TSPUs, we had commercial devices. So in other words, the -- and was Theranos 16 17 scaling in any other way other than the lab at the 18 time? 19 A We were making a lot of progresses on 4.X, 20 our 4.X system, and our plan in the long term was to scale around 4.Xs. So that could be part of the 22 discussion here. 23 Q Okay. The -- at some point in time, Theranos 24 was considering opening -- opening a lab in 25 Pennsylvania; right? 0525 1 A Correct. 2 Q And -- and as you mentioned, there -- there 3 were immediate plans on opening a lab in Arizona at this time; right? 5 A Correct. And the lab in Arizona was going to be a moderate complexity lab; right? 7 That's correct. 8 9 What about the one in Pennsylvania? 10 Initially, it was -- initially, I would say 11 they were both planned to moderate complexity. 12 And what was the time frame for having them 13 prepared to be high complexity? 14 A It depended on our FDA clearances, and I 15 don't know what other parameters we were looking at, 16 but it would -- would have primarily depended on FDA 17 clearances. Q And nothing about device capability would 18 19 limit the -- the -- the ability to scale to a -- to a

20 high complexity lab?

21 A No, no, nothing. I mean, this depends on the 22 assays. It's not a device capability issue. 23 Q Okay. So in other words, in your mind, 24 the -- was the 4.X sort of ready for a larger 25 deployment in the summer of 2014? 0526 1 For what? It depended on -- depended on 2 which assay. If, for example, you were talking about HSV1, which we had already submitted to the FDA, probably. I don't recall what was ready, but it really depended on -- depended on the assay. Q I guess, in the summer of 2014, was the 4.X 6 ready to scale on sort of the majority of assays that Theranos offered in its retail lab setting? 9 I think that's a -- that's a very complicated 10 question. The reason is: Define "scale." Because there -- the -- the device is -- is -- has a lot of 11 dimensions in terms of volume size, speed, run time, uptime, whether you have to service it every month or 13 14 every three months. 15 So I think "scale" has to be more clearly 16 defined when -- before one can say, "Yes, we would have 17 been ready to scale" as a blanket statement. 18 O Was -- was Theranos's 4.X series device 19 ready -- let me rephrase that. Were any of Theranos's 4.X series TSPUs 20 21 validated for use in the -- in the CLIA lab setting in 22 the summer of 2014? 23 A I don't think so. No. 24 Were there any plans, when opening that 25 Phoenix or Pennsylvania lab, to -- to place 4.X series 0527 1 there as part of the -- as part of opening those labs? 2 A Not initially as part of opening, but as 3 we -- like I said earlier, as we got FDA clearances, there were some tests we -- we probably would have 5 launched sooner than later in those labs using those TSPUs at that point. 7 Q Did you ever have a discussion with Ms. 8 Holmes about the information she was sharing with (b)(6); 9  $\binom{(b)(6)}{(b)(7)(C)}$  in this article? A You know, I don't recall. I'm not in this 10 11 e-mail. The NeXTcube idea could have only come from 12 me, my guess, because I was the NeXTcube fan boy, and I 13 used to love the machine. So I may have talked to her 14 not necessarily in this time frame, but before because 15 I used to talk about that. But I don't recall specifically this conversation. 16 17 Q Did you review the Fortune article after it 18 came out?

A I think I read a few pieces of it, but not

You don't think you read the whole thing

19

21

20 the entire article.

22 after it came out?

```
23
          No, I don't. I mean, I -- again, I may have
24 read more than a few pieces, but I don't recall reading
25 the entire thing and I -- because I didn't recall,
0528
1
   later on when somebody was asking me questions, again,
   counsel, I didn't recall what was in the article.
3
          Okay. And again, I just want to emphasize
   I'm not trying to inquire about your conversations with
   counsel. But I'm going to hand another document to
6
   you.
7
      A
          Sure.
8
          You can put Exhibit 247 aside.
      O
9
         I'm handing you what I'll mark as Exhibit
10 248.
11
       Α
           Thank you.
12
          For the record, 248 is a multipage document
13 Bates-stamped TS-613 through TS-621. And I'll
14 represent this was produced to the SEC as materials
15 that were included (b)(6); (b)(7)(C)
16
       A Okay.
17
                   (SEC Exhibit No. 248 was
18
                   marked for identification.)
19
          BY MR. KOLHATKAR:
20
       Q Do you recognize Exhibit 248?
21
       A Yes.
       Q What is it?
22
23
       A It's an article from Fortune magazine.
24
          If you turn to Page 4.
       O
25
         Page --
       A
0529
          So I guess it would be page -- page ending in
1
      Q
2
   616.
3
      Α
          Okay.
4
      Q And so it's your testimony that you don't
5
   remember reviewing this article in its entirety; is
6 that correct?
7
      A Correct. Right. Yeah.
      Q I want to turn to the -- the second column
8
9 there. It's the column on the right.
10
       A Yes.
11
           The paragraph that begins, "The company has
12 performed as many as 70 different tests from a single
13 draw of 20 to 50 microliters collected in a tiny
14 vial" --
15
       A Sorry, where are you? Okay. I see that.
16 Yeah.
17
       Q Fourth paragraph down.
18
          Yes. Got it.
       Α
19
       Q " -- collected in a tiny vial the size of an
20 electric fuse which Holmes had dubbed a nanotainer."
21
          Do you see that?
22
       A Yes.
23
          At that time had Theranos conducted 70 tests
```

24 from a 25- to 50-microliter sample of blood?

25 Sorry, what is your question again? I was 0530 1 reading this. 2 Q Had Theranos completed up to 70 tests from a 3 sample as described here? A I wouldn't know. I mean, this is more for 4 5 people in R&D or the CLIA lab. If they had anything 6 like this, they would know. 7 BY MS. CHAN: 8 Could the TSPU conduct 70 tests on a single Q 9 draw? 10 A Theoretically, yes. 11 O What do you mean by "theoretically"? 12 That a single draw, you could -- I mean, I 13 think about 65 or 70, I had mentioned that number briefly earlier. But there were some tests where we could do 65 to 70, a combination of some tests where we 15 could do 65 to 70 different tests. 17 On a -- on a single draw of a finger prick of 18 blood? 19 A Correct. 20 BY MR. KOLHATKAR: 21 Q I guess, had Theranos done that --22 A We had -- oh, I'm sorry. 23 -- by this time? 24 A In the TSPU itself, I don't recall if the R&D 25 guys had tested it. I knew because I was tracking this 0531 1 project for some time and they were manufacturing a cartridge. I know that they had demonstrated on a bench that they had -- they were able to do it. I don't know exactly if -- which version of TSPU, if in a 5 TSPU, they had run the entire thing. I don't know. Q What do you mean by "demonstrated on a 6 bench"? 7 8 A So you -- when you develop assays, you develop them on the bench first, which is a clinical 9 10 lab R&D space. But these are your assays, so you're developing your own assays -- and this is my 12 understanding again from -- of chem lab. You develop the assays and you demonstrate that you can reach a 14 certain level of sensitivity from a certain amount of 15 blood. 16 And we had a panel of tests where we 17 demonstrated that given, I think it was a very small 18 fraction of, microliter of blood, we could do a large number of tests each. And if you put all of that together, the total amount of a sample needed was less -- I think it was a hundred microliters or less. 21 22 Q I guess, is that sentence a true -- was that 23 sentence a true statement as of June 2014? 24 Α Which statement? 25 The statement that the company has performed 0532

as many as 70 different tests from a single draw of 25 to 50 microliters collected in a tiny vial the size of 3 an electric fuse which Holmes has dubbed a nanotainer?

A I think -- I think I answered that earlier.

5 That I wouldn't know because the R&D guys had -- were doing a lot of different tests that I didn't

necessarily know about. So it's possible they did 7 that, but I just didn't know.

- You don't know yes or no; is that --
- 10 A Correct.

4

9

17

19

21

4

5

11

13

17

11 What about -- if you look up at the second 12 paragraph on the same column, the sentence begins, "It 13 currently offers more than 200, and is ramping off" --

"ramping up to offer more than 1,000 of the most

15 commonly ordered blood diagnostic tests, all without 16 the need for a syringe."

Do you see that?

- 18 A I do.
  - Q Was that a true statement in June of 2014?
- 20 My understanding is: Yes.
  - Q Can you explain more.
- 22 Yeah. At this point we had, I think, 200
- 23 assays on our menu, and back in 2010 or 2011, we
- actually had a menu of a thousand tests, and we were
- 25 sending out a large number of them to a reference 0533
- 1 laboratory, but we wanted to be a one-stop shop so that 2 if a customer comes, we don't ever turn any -- anybody 3 away.

And this is a discussion that we were having internally. Should we reintroduce that full menu or should we keep our menu limited to 200. So this is what he's -- that is pointing out. And all of them, we never used a syringe in our patient service centers, at

9 least to the best of my knowledge because we were 10 against it.

O So in other words, the 200 here, in your 12 mind, includes venipuncture and finger stick?

A Yeah. That was the full menu. It may not be 14 200. I think it -- it was about 180, 190 and then it 15 ramped up to about 200, but I think the number is about 16 right.

## BY MS. CHAN:

18 Q So what were you using to do the venipuncture 19 in your patient service centers?

20 A Yeah. It was a different device. It's 21 called a butterfly needle or a butterfly that is usually used on pediatricians, and we drew micro 23 volume.

24 So if you go to a typical lab today, if you 25 do a test on -- let's say you pick 50 tests or 40 0534

1 tests, chances are they're going to draw out six,

eight, ten vials of blood. And they stick the full

needle in. Sometimes syringes, sometimes a bigger needle. 5 We had two of our software optimize the workflow so we could perform a similar number of tests 6 7 from a much less volume, and we -- for -- because of that, we needed a narrower gauged needle, and we were using a butterfly needle for that. 10 So the butterfly needle isn't a syringe? No, it's not. Absolutely not. A syringe, 11 12 you -- somebody sticks it in you, you'll remember it. 13 A syringe is something very different. 14 BY MR. KOLHATKAR: 15 Would you turn to the page ending in 618. I guess, do you -- do you -- before we turn the page, I apologize, do you recall reading either of those two sentences when the article came out? 18 19 A You know, I don't recall in this moment. 20 Like I said, I've read pieces of it, but I may have. I 21 don't recall. 22 Q If you turn the page ending in 618, again the 23 column on the right, there's a paragraph that begins, "Importantly, it's not just the blood draws that are 25 tiny. It's also the analytical systems Theranos uses 0535 to perform the tests. They take up a small fraction of 1 the footprint required by a conventional lab today." Do you see that? 3 4 A I do. 5 Was that a correct statement in June of 2014? 6 A I mean, I don't know which analytical system this is referring to, but if it's referring to 4.Xs, the answer is: Yes. 10 Q Was Theranos's lab footprint smaller than that of a conventional lab in June of 2014? 11 12 A I mean, I don't know what a convention lab 13 looks like. But what I'm saying is: Assuming this implies -- the analytical system here implies 4.X machines, yeah, our footprint would be much, much 16 smaller. 17 BY MS. CHAN: 18 Q Was Theranos using the 4.X machines to 19 conduct patient testing at this time? 20 A Sorry. Even 3.Xs. I should include all 21

- TSPUs. If this is referring to that, then our
- footprint, 3.Xs, whether the 3.0 or 3.5, 4.Xs would be
- 23 much smaller.
- 24 Q But you were also using commercially 25 available machines to conduct patient testing at this 0536
- 1 time; right?
- 2 For venipunctures. That's correct.
- 3 Okay. So do you think it's misleading to be
- saying that Theranos is employing a smaller footprint

than a conventional lab to conduct its patient testing? 6 A I mean, I don't read it that way. I think I 7 read more here -- it says, "The analytical systems Theranos uses." I don't know if it is referring to 9 4.Xs, 3.Xs, or what it is referring to. 10 BY MR. KOLHATKAR: 11 If you'll turn the page to the next page 12 ending in TS-619, the column on the left, there's a paragraph that begins, "Theranos, which does not buy any analyzers from third parties, is therefore in a 15 unique position." 16 Do you see that statement? 17 A Where are you again? 18 Q On the left column about the third full 19 paragraph down. 20 Yes, I do. 21 Q Was that a true statement in June of 2014? 22 A No, it was not. 23 Q Did you read this part of the article when it 24 came out? 25 A No. Unfortunately, I didn't. 0537 1 Q Did anyone bring this issue to your attention when it came out? 3 A Not that I recall. Did you ever -- at any point in time, did you 5 ever discuss this line with Ms. -- with Elizabeth 6 Holmes? 7 A No. I mean, I don't think anybody brought it 8 to my attention, but I don't recall discussing it 9 either. 10 Q Do you know if the Fortune article was shared 11 with prospective investors? 12 A I think in some meetings, some investors had 13 expressed interest in learning about the company and what the media was saying, especially some people who actually owned media properties or that were in media. 15 16 So they said, "Send us what has been out there." 17 And we said, "Okay. We'll put a compilation 18 together and we'll send it to you." 19 Q Did you ever send the Fortune article to any 20 prospective investors? 21 A I think my answer will be the same. If I 22 did, I probably didn't go and find it and send the link. I probably -- if I did send it to somebody, then somebody else sent it to me and I just attached it and 25 sent it out. 0538 1 Q Do you know if anyone at Theranos raised concerns internally about the accuracy of the Fortune article when it came out? 4 I don't recall. I don't recall. 5 Q I'll hand you another document and we'll 6 break for lunch in a minute here.

```
7
         I'm marking as Exhibit 249 a document
   Bates-stamped THPFM0000833200.
9
      A Okay.
10
                  (SEC Exhibit No. 249 was
11
                  marked for identification.)
          BY MR. KOLHATKAR:
12
13
         Do you recognize this document?
14
       A Yes.
       Q What is it?
15
16
       A It's an e-mail from Elizabeth to myself and
17 then my response to her.
       Q Okay. And your response to her is -- is --
18
19
       A Number --
20
       Q Sorry, did you send this on or around June
21 12, 2014?
          Yeah. That's the date.
22
       A
23
          And your response to her is "Great"; is that
       O
24 fair?
25
      A Yes.
0539
      Q And is she -- is she sending you an -- an
1
   e-mail that appears to be addressed to shareholders?
4
      Q Why -- why did you have a reaction that this
5
   was great at the time?
      A Well, I don't think I necessarily read it and
6
   evaluated it on a scale. It was more of a colloquial
   comment saying, "Yeah, looks good. Great." I didn't
9 have any comments, basically.
       Q I guess, you know, seeing the inaccuracy
10
11 that -- that you -- that you mentioned about the -- the
12 use of -- of manufacturing its own analyzers, did you
13 have any concerns with Ms. Holmes sharing this document
14 with shareholders?
15
       A No.
16
       Q
          Why not?
17
       A I mean, I didn't read the article, so --
18
   which is why I -- I was commenting more on her note
19
   here, not necessarily the article.
20
          MR. COOPERSMITH: Are you talking about
21 now --
22
          MR. KOLHATKAR: Yeah.
         MR. COOPERSMITH: -- as he sits here today?
23
24
          BY MR. KOLHATKAR:
25
      Q Yeah. Sitting here today, do you have any
0540
   concerns with the article being shared with -- with
   shareholders?
3
      A No. I think the article was already --
4
         MR. COOPERSMITH: I'm sorry, I -- the -- I
5
   was just asking whether the question called for Mr.
   Balwani to ask -- to answer whether as he sits here
7
   today as opposed to at the time.
8
         BY MR. KOLHATKAR:
```

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Q And let me rephrase the question.
10
          MR. COOPERSMITH: Thank you.
11
          BY MR. KOLHATKAR:
12
          So sitting here today, do you have any
13 concerns about this article being shared with investors
14 in light of the inaccuracy that you pointed out?
15
          And I think my answer is: The article was
16 already in public, so, you know, I don't know what else
17
   to say.
18
       Q I guess I don't understand that answer. Do
19 you think it was -- do -- do you think it was
   appropriate to share an article with inaccuracies --
21 with an inaccuracy to investors?
22
       A I mean, I think it would have helped to
23 provide a more -- shed some light on this maybe, but I
24 think she was just sharing something that was already
25 published in the public, so I actually don't know to
0541
1
   answer to that.
2
      Q Do you know if Ms. Holmes took any steps to
3
   correct this -- this header that was already out in the
   public?
5
      A I didn't.
          You never heard her talk about it?
6
7
      A No. I spent close to zero time on media and,
8
   you know, PR. Very little time.
9
         MR. KOLHATKAR: We'll go off the record at
10 12:03 p.m.
11
          THE VIDEOGRAPHER: Off the record.
12
          (Whereupon, at 12:03 p.m., a luncheon recess
13 was taken.)
14
          AFTERNOON SESSION
15
          THE VIDEOGRAPHER: Rolling.
          MR. KOLHATKAR: We're back on the record at
16
17 12:56 p.m.
18
          BY MR. KOLHATKAR:
19
       Q Mr. Balwani, just to confirm, you didn't have
   any substantive discussions with the staff during the
20
21
   break; is that correct?
22
       A That's correct.
23
          We talked a little bit yesterday about your
24 role with -- with the company's financials.
25
          Do you recall that?
0542
1
      A
          Yes.
2
          Did you supervise the company's controller?
3
      A No, I did not.
4
          Who did?
      O
5
          She technically reported into Elizabeth
6 Holmes, but I would interface with her on transactional
   matters if I needed something, or if she had any
8
   questions, sometimes she would come and talk to me.
9
          So, I guess, is the answer that she would
10 ultimately report to Elizabeth Holmes?
```

11 Well, she was -- from a hierarchical 12 perspective, she was reporting to her, but I think that 13 she was interfacing with both of us based on what was 14 needed. And, of course, anytime I needed something 15 from her, I would reach out to her directly. 16 Q And what are the kinds of things that you 17 would -- and are we talking about (b)(6); (b)(7)(C) here? 18 19 A Yes. 20 What are the kinds of things that you would 21 reach out to (b)(6); (b)(7)(C) for? 22 A I used to often ask her for a balance sheet 23 statement if I needed it for any purpose. I also used to frequently ask her to send me a -- I think what 25 ultimately became known as the monthly cash report. So 0543 1 she would send that to me. I would ask her and she would tell me what was the monthly cash balance, so I 3 was tracking cash that way. 4 I also asked her, I think, about -- sometimes 5 about expenses, you know, on a particular project or a 6 particular category, so she would send that to me. Q Who -- and we talked a little bit about the 8 idea of revenue yesterday as well. Who had final say at the company on whether to recognize revenue? 10 A What -- nobody at the company. It would have 11 been up to the accountants or the CPA who would have 12 made that -- made that decision once we started doing 13 GAAP -- or audited financials. So the business may 14 have -- may have, you know, provided input that we 15 think this is what it is and this is the purpose of 16 this dollar, but ultimately, it would have depended on 17 the accountants. Q So, I guess, was it your view that  $|^{(b)(6),(b)(7)(C)}$ 18 19 was not the company's accountant? A No. I mean, I think -- (b)(6), (b)(7)(C) 20 21 but I don't think she had enough expertise to be able to -- in my view, to be able to make a decision on if something was recognizable revenue or not. We would 24 have gone to outside accountants to help on that. 25 In 2013 and 2014, who would that have been? 0544 1 Outside accountants. I think the company had KPMG back then. I actually don't remember the name. But it was one of the big three accounting firms, or 4 big four accounting firms. 5 Who was responsible at Theranos for 6 interacting with the -- the accountant? Mostly, it was (b)(6); (b)(7)(C) and then I think in 2015, I interfaced with the accountants a few times. 9 I may have spoken with -- with the accountants maybe 10 once or twice a year on other occasions, but I don't 11 remember. 12 Q During your time at Theranos, was there ever

```
13 a CFO?
14
          Not when I was in the company, no.
15
           Did the company ever think about hiring one
16 while you were there?
17
           Yes, absolutely.
18
       Q
           Why didn't it?
19
           We were recruiting and -- the first few years
20 I was there, the company was small, and (b)(6); (b)(7)(C)
                                                         was
    doing a good job. We didn't -- we were still
22 recruiting for a CFO all along, but it was not a
    pressing, high priority because we were focused on
24 hiring -- recruiting scientists and engineers and other
25 managers. So it was -- I would say at that point, it
0545
1 was a high priority but not the highest priority.
2
         But I think after 2013, we had a list of
   eight or ten of the critical priorities, and I think
   CFO was always number one or number two. We were
   recruiting for that position. I believe we interviewed
5
   many candidates, but didn't quite find the person that
7
   we thought was the right person.
8
      Q Was there any reason why you struggled to
9
   find someone for that position?
       A I think before 2013, nobody knew us, so it
10
   was difficult to hire somebody. And I think in 2014
    and '15, we actually also hired a headhunter --
13 headhunting firm, at least one, and we gave them the
14 job for CFO. It cost us a lot of money, I recall that,
15 just to fill that one position.
16
          And they brought us a few candidates, but not
17 many. Obviously, on LinkedIn and other places, we
18 would -- my recruiting team, the head of HR, was also
    looking for CFO candidates, but I don't recall
20 interviewing too many candidates that were mature
21
    enough or who had a deep understanding, in my view, who
22 interviewed.
23
          But it was an ongoing effort. It was not we
24 ever stopped looking for CFOs.
          Okay. So in other words, you'd meet someone,
25
0546
   but they just didn't -- they didn't have the right
1
   skill set that you were looking for?
      A Yeah. Either the right skills set or not
3
   necessarily the right approach. You know, they were
   looking for companies that are planning on going IPO in
   the next year or two years, and we were looking for
   somebody a lot more conservative who can help us build
   a company for the next, you know, 10, 20 years and not
   think about, you know, IPO and that, going public.
9
10
       Q Did you ever tell anyone that you were
11
    effectively the company's chief financial officer?
12
       A No.
13
       Q Did you ever hear Elizabeth Holmes describe
14 you that way to other people?
```

15 No. She may have joked that, you know, he's 16 doing the modeling, so he has the numbers. But I don't 17 think she or anybody would have described me seriously 18 as a chief financial officer for the company. 19 Q Did she ever -- do you ever remember her 20 joking about you being the CFO? 21 She used to say, "He's the numbers guy in the 22 company." I don't know if she used "chief financial officer" or not, but she used to point and joke that 24 "He's wearing multiple hats. He's also the lead 25 programmer and other things in the company. And as 0547 1 part of that, he also maintains the numbers, the 2 model." 3 By "numbers," you understood that to mean Q the --5 A The model. 6 -- financial model? 7 Financial model, yeah. 8 Who was responsible for reviewing and 9 authorizing the company's tax returns? That was in (b)(6); (b)(7)(C) 10 domain. She would 11 come up with the final reports that she was going to file, and she may have presented those to either me or 13 Elizabeth and one of us may have signed it. I don't 14 recall signing those, but it's possible she presented 15 those to me and I signed those. 16 If you didn't sign them, would there be some 17 documents that you have reviewed before signing them? 18 Not necessarily. I would just rely on (b)(6); 19 And if she said, "These are the tax returns," 20 then I would probably scan them, look at them, but then 21 I would sign them and give them to her. 22 Q Was it your expectation that the company was 23 providing accurate information on its tax returns? 24 Α Absolutely. 25 Do you know if the company reported taxes on Q 0548 1 a cash or accrual basis? 2 A I don't know. 3 Do you know what the difference is? 4 I believe so. I mean, high-level accounting. 5 High level, what does it mean to you? 6 Cash is when you report something on a cash-in and cash-out basis. And accrual is more where you may have accrued -- you may have accrued an expense but may not have not paid for it yet or revenue that you have earned but you haven't received the cash for that yet. So you have accrued the revenue, but you 12 haven't received the cash for it yet. 13 Toward the end of 2013, the company was 14 running low on cash; is that right? 15 A I don't specifically recall. I don't know 16 low -- how low. I don't recall.

17 Or I guess in the two thousand -- late 2013 18 time frame, were you generally kept apprised of the 19 company's cash situation? 20 A Yes. 21 O Would that be a report that (b)(6); would send 22 you? 23 Either that or I would just ask her. Yes. A 24 And at any point in time, did you become 25 concerned in 2013 that the company was running low on 0549 1 cash? 2 A I would probably pay attention to it. I wouldn't say I was concerned because our partnership with Walgreens was in a good position and other things in the company were gaining momentum. So I wouldn't say I was concerned, but I had my eye on it. 7 Q Why did company raise funds from investors in 2014? 8 9 A In early 2014 or late 2014? Why don't we start with the late 2013, early 10 O 2014 time period. 11 12 Yeah. I think we had identified a few 13 strategic investors -- in 2013 towards the end, our focus was: We were only going to primarily let 15 investors who are strategic investors invest. That 16 means they are not -- it's not just dumb money, as it 17 quote/unquote is called in Silicon Valley. That it's 18 not just money, but they're also bringing a greater 19 value add to us. 20 So, for example, if a hospital wants to 21 invest in us or -- directly or indirectly, our 22 expectation would be, you know, we would work with them because we would have access to patient samples when we do our 510(k) submissions, which is a major barrier. 25 So any investor we would work with, in our mind, had to 0550 1 provide some strategic value to the company for, you know, the next five, ten, fifteen, twenty years. 3 So as part of that, we engaged with some 4 hospital partners and then there was this one hedge fund, PFM, who had approached us around November time frame, and then they came to us for an investment. 6 Was the company considering a C-2 round at 7 8 that -- that time frame, the late 2013, early 2014 time 9 frame? 10 A We were -- we -- like I said, I don't think 11 we would necessarily proactively, you know, say, "Okay. 12 We're going to go and do a C-2 round, and this is the 13 time frame, and this is how we're going to do it." It 14 was more opportunistic that if we find the right 15 investor, we would bring them in, and if we don't find the right investor, we would wait. Because we always 17 thought that time is on our side as -- the longer it took, the more progress we made, and the better off the

```
company would be in the long run.
20
       Q And, I guess, what kind of progress did
21 you -- do you have in mind? Do you mean both in terms
22 of the development of the TSPU as well as the
23 commercial rollout or --
24
       A Across the board. I mean, we just felt that,
25 you know, the wind was behind our back. We were making
0551
1 good progress. For example, in -- 12/31/2013, we
   signed that amendment with Walgreens which was really
   important, I think, for us because that committed
   Walgreens to us as a national partner and besides some
5
   other provisions in there. So that was a big milestone
6
   for us.
         So that kind of progress. And obviously on
   the technology side, the longer time he had, we knew
   our products would get better on the software side.
9
10 Now, finally, we were able to recruit more
11 aggressively, so we were building our software team,
12 and, you know, a year from January 2014, we would have
13 a lot more software to show our vision. That, you
14 know, we could actually tell somebody to go to
   Walgreens with their iPhone app, and they can see the
16 whole process working rather than us just visually
17
   describing to them what it meant.
18
          So the more time passed, the better we got,
19 the better our product got, and more we could show.
20
       O Do you remember what the company's burn rate
21 was in late 2013?
22
          I wouldn't remember that specific detail.
23
          Do you have -- I mean, just a ballpark, kind
24 of. Was it spending more or less than a million
25 dollars a month?
0552
      A I'm sure it was more than a million -- a
1
2
   million dollars a month.
3
      O Less than 10?
4
      A Yeah, I think it was certainly less than 10.
5
         Do you think it was more than 5?
6
          That, I don't remember specifically.
7
          So we talked about the financial model a
   little bit. Was -- in -- in the late 2013 time
   frame, was Elizabeth Holmes familiar with the company's
10 financial model?
11
       A I may have shown it to her. Because over
12 time, we would sometimes sit and I would talk to her
13
    about some assumptions I was making in the model, and a
14 lot of times, it was in the context of R&D because
15 we -- she was focused more on R&D.
16
          And I would say, "What do you think your head
17
   count's going to look like in chemistry," because I
   didn't understand chemistry. So it was in the context
18
    of kind of fine-tuning the model. And I would share
20 with her, "Hey, look, I" -- "I found this detail. I
```

21 want to share something with you." 22 So she probably would be familiar with a few 23 details, but I don't think the whole model -- we never 24 spent exhaustive time, me walking her through the 25 entire model. 0553 1 At any point in time in 2013 or later, did 2 she express any concerns about any of the assumptions you made in the model? 4 She probably would have. I mean, that was the whole point of having a discussion with her. That if she thought that our requisition per visit is low or high, we would have -- you know, she would have made 8 some comments. 9 Q So you think -- you think you at least discussed the assumptions with her? 10 A It may not have been that "Let's sit down and 11 12 show you all the assumptions," but like I said, over 13 time between 2010 and beyond, you know, we would discuss assumptions and -- whether it was in the 15 context of the model or in general, but knowing that it 16 was going to go into the model, of course. So we 17 discussed a lot of things that ultimately made their 18 way into the model. 19 For example, if I recall correctly, I didn't 20 account for any estimates for -- any assumptions for 22 don't have visibility into that," and she would say, 23 24 "Fine" or something like that. You -- you -- you -- sorry. You understood 25 0554 1 that -- let me rephrase that.

the DOD side, and that's something I would have said, "Look, I don't want to include anything here because I

To your knowledge, Elizabeth Holmes 2 3 understood that you maintained a financial model for 4 the company; right? 5

A Correct.

18

19

And that -- that model was based on certain 6 assumptions based on -- in terms of the business and 7 its R&D; is that fair?

9 A And a bunch of other inputs. But, yes, 10 that's fair.

11 And she was generally familiar with the kinds 12 of inputs that went into the financial model?

13 She may have been at some point, but I was 14 revving the model and adding so many assumptions that she may not be familiar with all of them or even most 16 of them. So I -- I wouldn't necessarily make that --17 that blanket statement.

## BY MS. CHAN:

Did she ever edit the model?

20 To the best of my knowledge, no. And there was one time I actually had a couple of questions for 22 her, and I had put a model with her name on it so she

- 23 could edit, but I don't think she ever did because I 24 continued with my assumptions and I never even looked 25 at that model. So my -- I think my answer is: No. 0555 1 Q Where did you keep your financial model? In 2 which folder? 3 A It was a folder called 300, and this is -- I shared earlier yesterday that I -- I used that almost as my home drive. So everything that I was working on was on -- pretty much everything. I shouldn't say "everything." Pretty much everything was on the H drive. And under the H drive, I had a folder called either Fin or something like that. Oh, sorry, under 10 300 folder. Q And Ms. Holmes had access to the 300 folder? 11 12 I believe so. Yes, she did. 13 Do you know if she opened documents or 14 reviewed them? 15 A I don't know. Do you know if she would have opened 16 17 documents and revised documents under the 300 folder? 18 I would say in general, no, because I didn't 19 see much activity from her on -- on the 300 -- in my 20 folder, like, the 300 folder. She may have had her own 21 folder and she'd use that as her own folder. I just 22 used our common folder as it were my own folder. So 23 she may not have. I wouldn't be able to tell. 24 BY MR. KOLHATKAR: 25 I'd like to turn back to the big rubber-band 0556 1 document that's Exhibit 221. And if you could turn to the page ending 2 3 1036263. 4 A Okay. And I'm looking at the lines starting on 5 November 21st, 2013, at 5:35 p.m., or 5:35. 6 7 Yes. A And do you see that message from you saying, 8 "U should make yourself comfortable with financial models. Alternatively, you can cover everything else and I can meet with him on Tuesday and answer any 11 12 questions." 13 A Yes. 14 And do you see this is in relation above 15 to -- this is in relation to someone name Saurabh 16 above? 17 A Yes.
  - 18 0 Who is that?

19

- He was a quant, a number cruncher for an
- 20 investment firm based out of Hong Kong.
- 21 Q Do you remember what that investment firm 22 was?
- 23 A DST.
- 24 Was DST a prospective investor in Theranos?

25 They had shown interest in -- in us. So I 0557 1 met with them, I think, once or twice, but I don't 2 think our conversations really progressed much 3 further. 4 O I guess, do you have any -- any recollection of why you're asking Ms. Holmes to get comfortable with the financial models? 7 A Yes. Because otherwise, I would have to be 8 in the meeting. So I thought if she could cover that, 9 then I didn't have to be in the meeting and I could do 10 something else. But if she didn't, then like I said here, you know, I would do it on some other day, on 12 Tuesday. 13 And do you know if she ultimately did get --Q 14 did present the model to someone from DST? 15 She did not. 16 Q How do you know? 17 A Because I did. I met with this guy. That's 18 why I remember him. He was a quant. 19 Okay. If you turn to the next page -- I 20 guess, what do you mean by "quant"? I should clarify 21 that. 22 A Yeah, sorry. He's a number cruncher. 23 Q The page ending 1036264. 24 A Yes. 25 I'm looking at the -- still November 21st, 0558 1 2013. Now this is at 1727:58. 2 Do you see that? 3 A Sorry, again? 4 1727:58 is the time. 5 Α Yes. And the question from her is: "Does he need username and password for financial model?" 8 A Yes. 9 O And then it looks like a couple of lines down, you say, "Please close file." 11 A Yes. 12 O What are you asking here? 13 She had probably had the file open and I couldn't save it. So she was probably looking at the file, and I was telling her to, I'm guessing because 16 that's what it would mean, to close the file so I could 17 save it. 18 Q And it looks like a couple of lines down, you say, "File under DST folder under Fin." 19 20 A Uh-huh. 21 O "Not safe to give to him yet." 22 A Yes. 23 Why was that? 24 That's because you're looking at the time 25 frame, which is 11/21/2013. At that point my financial 0559

model was really raw. I had my commentary all over the place with my code names like Normandy and bunch of 3 other things, and many of the assumption were blank or I didn't have them filled out correctly. So I wanted to clean up some of my internal commentary. Chances are, there was probably something internal that I 7 didn't want him to see, so I probably had wanted to 8 remove that.

But I would glance at it before I would hand 10 off the model to somebody else to make sure there's nothing referring to anything proprietary in the model. 11

9

4

8

- 12 Q Okay. So in other words, you wanted to make 13 sure that you weren't revealing any of those trade 14 secrets in the financial model; is that correct?
- A That would be one, or it could be something 15 else. Like I said, I had a lot of foolish comments to, like, killer software engineer and stuff like that. So 17 18 I wanted to send a reasonably saner model.
- 19 Q At some point in time, did you develop a -- a 20 reasonably saner model that could be shared more broadly? 21
- 22 A I think around the end of 2014 when I had 23 this consultant who helped me with this model from DST -- not DST, from BDT, it started to look better and 25 I had removed a lot of that vocabulary from there. 0560
- 1 MR. COOPERSMITH: Mr. Balwani, you said the 2 end of 2014. Is that what you meant to say? 3
  - THE WITNESS: Yes. Towards the end of 2014.
    - MR. COOPERSMITH: Okay. Sorry. I don't --
- 5 MR. KOLHATKAR: Go ahead.
- MR. COOPERSMITH: There was some lack of 6 clarity on the date.

## BY MR. KOLHATKAR:

- 9 Sure. I guess, in your mind, I guess, when 10 did you develop a, you know, a model that was cleaner for -- to -- that took out some of that internal 11 12 commentary you described?
- 13 A It happened over time because I -- I was 14 obviously, like here, I was cleaning it also. But the end of 2014 is when I met with a consultant who helped 16 me format the columns, label the columns correctly, put 17 some percentages here and there to show more 18 information that was already in the model, but to
- 19 view -- make it easier to read. 20 And then after that, I continued to -- to 21 make it better, to make it even more saner. But I 22 wanted the model to be easy to consume and easy -- easy 23 to -- to edit and change.
- 24 O If you'll go to the next page, the page 25 ending 1036265. The top of the page, about five lines 0561
- 1 down, there's a message from Ms. Holmes. It says,
- "Projects include BS and 2013 numbers. I guess it is

```
okay."
          Sorry, where are you?
      Α
      Q Five lines down at 11 -- 22nd of November
5
   2013 at 5:17 and 38.
6
7
          Yeah, I see that.
8
          It says, "Projects include BS and 2013
9 numbers."
10
          What did you -- you understand that to mean?
11
       A I mean, I don't recall looking at the line.
12 But what it says, "BS" stands for balance sheet, I
   assume. And I don't know what "2013 numbers" would be.
14 I would have to look at the model to refresh my memory.
15
          And does "projects" refers to projections?
16
       A
           Probably, yes.
17
           So, I guess, did Ms. Holmes sometimes use the
18 term "projections" when talking about your financial
19 model?
20
       A Internally. Like I said earlier, we used to
21 refer to this file as financials, fin, fin model,
22 different names referring to this file.
23
           And she may have used "projections" as well
24 for that file?
25
          In this case, seems like it.
       A
0562
1
      Q And it looks like she says, "Saw you took the
   10M TPS out of Sequoia 2013 projects."
3
         Do you see that?
4
      A Yes.
      Q What does that mean?
5
6
      A I don't recall what it means.
      Q Do you know -- do you know what "TPS" mean?
7
8
          Yeah. "TPS" would be Theranos pharmacies
   shield. It was the acronym we used for I think some of
   the pharmaceutical work we did -- we did, so we had to
    come up with an acronym to define the pharma
12 projects -- the pharma contracts. And we used to call
13 it TPS for some reason. It was -- the name was there
14 before I came.
15
       Q Okay. So -- and just so I understand, the
16 TPS refer to Theranos's --
17
       A Pharmaceutical.
18
       Q -- pharmaceutical --
19
       A Yeah.
20
       O -- services?
21
           That's what I think, yeah.
22
           Okay. The -- and it looks like -- so it's
   your understanding, this -- this 10 mil -- 10M, do you
24 understand that to be 10 million?
25
           Seems like it, yes.
0563
1
      Q To be in reference to the pharmaceutical
2
   services?
3
      Α
          Correct.
4
          In 2013, was -- again, was -- was Theranos
```

5 receiving \$10 million for pharmaceutical services? A I don't know. I mean, like I said, this was a model, so I would have probably put some number or not. So I don't recall what it meant here. And if I see the model, I would be able to comment more 10 accurately. 11 O Okay. I guess I -- I do want to get to the 12 model. I just want to get a sense of what you understood Ms. Holmes to -- to understand about the 13 14 model. 15 A I think she was commenting on something in 16 the model. 17 Q And was it your sense here that one of the 18 lines she's commenting on is the pharmaceutical services line that's in that model? 20 A That's what -- it seems like it, yes. 21 And looks like at one point, she says, "I 0 22 guess if 25 is an issue, 35 would be too." 23 And you respond, "We'll look another way. If 24 25 is not good enough, then 35 won't be either." 25 What does that mean? 0564 1 A I wouldn't be able to guess from this general statement. I would -- like I said, if I see the model, it may make more sense. Q Do you have any recollection of a discussion 4 with Ms. Holmes about the model that was sent to 6 Sequoia? 7 A I don't. 8 Who is Sequoia? 9 It's a venture capitalist firm that had shown 10 interest in us. And did you consider them to be a potential 11 12 strategic investor? A At that point, yes. 13 14 What about DFJ? 15 A They were an existing investor in us. 16 Q Who was it? A Draper Fisher Jurvetson. 17 Did you share projections with Draper Fisher 18 19 Jurvetson? 20 A You mean the model? 21 Q The model. 22 A I don't recall. 23 BY MS. CHAN: 24 Why would you consider Sequoia as a strategic 25 investor? 0565 A Sequoia is a legendary Silicon Valley firm. 1 I mean, it's not just any other firm. They have invested, I think, in some of the biggest marque names in Silicon Valley. So they have incredible depth. 5 They could have guided us like no other -- very few VC

6 firms.

## 7 BY MR. KOLHATKAR: 8 Q Did you see Theranos as a venture stage 9 company in late 2013? 10 A We saw us as a -- still like a life sciences 11 startup. I don't know what "venture stage" technically 12 would mean. But -- you mean like something that we'd 13 go to a venture capital for money? 14 Q I guess in your own mind, in 2013, what 15 did -- what did a venture stage firm mean to you? 16 A Well, I don't know, which is -- what -- the 17 way we described ourselves was: We were an LS startup. 18 And even though, yes, it was 2013 and we had, like, 200 19 people or something like that, but where we were in our 20 life cycle, we looked at ourselves as a startup. And 21 actually even in 2015, I'd say we are a startup. So we 22 used to look at us as a startup. I don't know about 23 "venture stage." I don't know what that means. 24 Did you ever describe it as a -- in your own 25 mind, was Theranos a late-stage or early-stage startup? 0566 1 A I don't know. I'm not familiar with the VC industry, and I haven't spent too much time there, so I wouldn't know how they categorize things, so I wouldn't like to guess. 5 BY MS. CHAN: Q Could you turn back one page to 1036264 of 6 7 Exhibit 221. A 264? 8 Q 264. Yeah, just one page back. 9 10 Yes. Uh-huh. 11 So towards the middle of the page, it's 12 November 21st, 2013, at 1745 and 19 seconds. Do 13 you see there's a text message from Elizabeth to 14 yourself where she says, "Can I edit it? There are 15 typos." 16 A Yes, I see that. 17 She's talking about editing the financial Q 18 model? 19 A It seems like it. Because if that's the 20 conversation that we are still talking about, then the 21 answer would be: Yes. 22 Q Okay. And then she goes on to say, "Okay to 23 open?" 24 Do you remember her editing the file at that 25 time? 0567 1 A Like I said earlier, I don't recall. She had access to it. And this was in 2013. We are early. So even if she edited it like she's referring to here, 4 there may have been typos, but I don't recall her making any meaningful changes that I recall in the model. And it is highly likely that if I didn't know 7 that she had made changes, I probably ignored them because I had another version that I was working off

9 of. 10 When you discussed the financial model with 11 Ms. Holmes, how would you do it? 12 A I had probably the biggest screen anybody 13 else had in the office, about a 30-inch Mac terminal. 14 And usually, I would ask her to come over, and I would 15 tilt the screen towards her, and would have it on my 16 machine and I would show it to her. Sometimes I would 17 project in the conference room, but rare. Mostly it 18 was on my screen. 19 So you would talk over the assumptions with 20 her, and, you know, if she had any input, would you 21 make those changes? 22 A Yes. 23 O And generally, did she -- did she understand 24 how the model flowed? You know, that you would put an 25 assumption and that it would run through the other 0568 1 different financial statements? 2 A Yeah. I mean, I think in our -- 2013 when the world was simpler, we spent a little bit more time. But after that, we got busier, so she spent less and less time. So I don't know how much she understood after that point. But in 2013, I did show her "Here are the inputs. If I modify these, it will reflect here and it reflects here and it reflects here." So I -- I walked her through it. I don't 9 10 know if she spent any time on that or not. 11 BY MR. KOLHATKAR: 12 What was your saving convention saving the 13 files -- these model files in your 300 folder? Did you name the file by the date that you were changing a 15 file? 16 A It changed over time, and actually depended. 17 In many cases, I would just keep editing -- if 18 something was not major, then I would not rename it, so 19 I would just keep editing the same file. But when I 20 reached a point where I thought it's worth forking because I would like to go back and remember some 22 things from the old model, I would fork it out. I would rename it as something else. And I'd keep the 24 old one as is, and then I'd work on the new one, and 25 then I'd keep doing that. 0569 1 Q I guess, how would you -- how would you delineate which was the -- the more current fork in the 3 road? 4 A Yes. By the timestamp, most likely, but I would also give them somewhat -- over time as I had more models, I would give it a little bit more 7 descriptive name. So, for example, "As of BOD meeting"

or something or "As of talking to Elizabeth" about

something. So I would put some kind of commentary in

8

10 the file name itself.

```
11
          I'm going to hand you a document that I'll
12 mark as Exhibit 250. You can put Exhibit 221 to the
13
   side for now.
14
          For the record, 250 -- Exhibit 250 is a
15
       document Bates-stamped TS-0400455 through
16
   TS-0400456.
17
          Let me know when you've had a chance to
18 review it.
19
                   (SEC Exhibit No. 250 was
20
                   marked for identification.)
21
          THE WITNESS: (Witness reviewing document.)
22
          Okay.
23
          BY MR. KOLHATKAR:
24
          Do you recognize Exhibit 250?
25
           Yes, I do.
0570
          What is it?
1
      Q
2
          It's an e-mail exchange between myself and [b)(6)
3
   (b)(6); (b)(7)(C)
                                  Sequoia Capital, and
  I've CC'd Ms. Holmes on this -- actually, she's CC'd on
5
   the thread.
          Who -- and who -- what was -- do you know
6
   what (b)(6); (b)(7)(C)
7
                    role was at Sequoia Capital?
          Yeah. (b)(6); (b)(7)(C)
8
9
   (b)(6); (b)(7)(C)
10
11
       Q The -- I'd like to focus your attention on
12 the last e-mail in this chain. The -- the long
   paragraph in your e-mail dated December 6, 2013, it
   says, "We have approximately 108 million currently in
15 deferred revenue."
16
          Do you see that?
17
       A I do.
18
       Q Is the paragraph that proceeds kind of an
19
   accurate summary of your understanding of Theranos's
20 deferred revenue as of December 6, 2013?
21
       A It would be accurate as of 12/6/2013, back
   then. I don't remember right now, sitting here,
22
   whether -- without the model to be able to comment on
24 that. But it would be accurate. I wouldn't be sending
25 anything to him that was not accurate.
0571
1
      Q I guess, just -- well, you know, I understand
   that the elements of this would be placed in the model,
   but does this comport with your memory of what you
   understood the deferred revenue situation was at
5
   Theranos as of December 6th?
6
         To the best of my understanding, I think the
7
   answer would be yes, of course.
8
         And did anything -- did anything about
   Theranos's deferred revenue -- your understanding of
9
   Theranos's deferred revenue change after December 2013?
10
11
           Yes, significantly.
12
       Q
           How so?
```

```
13
          We signed an amendment with Walgreens I think
14 just less than a month after I sent this e-mail, and
15 that modified our contract terms with Walgreens, and we
   got the 75-million-dollar payment from Walgreens as
    part of that. And that changed the contract -- that
18
   changed the -- the assumptions behind this contract.
19
          And so how would that have changed the -- the
20 description of deferred revenue that exists here?
21
       A Yeah. So first of all, the -- I think about
22 a hundred million of this -- again, I don't remember
23 the exact details, but the hundred million of Walgreens
24 revenue, 75 million would be deferred. Now, it would
25 not be -- no longer be deferred was my understanding
0572
1 because now we get to recognize it because the
   contract -- according to the contract, it was
2
3
   nonrefundable.
4
      Q Okay. That's helpful. Thank you. You can
5
   put -- put Exhibit 250 to the side.
         We don't have a projector in this room, so
6
   I'm going to hand you a document that is -- that I'll
7
8
   mark as Exhibit 251. It's a bigger sheet of paper.
9
          Thank you.
10
                   (SEC Exhibit No. 251 was
11
                   marked for identification.)
12
          BY MR. KOLHATKAR:
       Q For the record, Exhibit 251 is a native
13
14 printout of an Excel document. I'll represent that each
   page printed out represents a single worksheet in
16 the -- in the Excel file. And the document was
   produced at PFM0017759.
17
          Mr. Balwani, I'll represent to you this is a
18
19
   native version of the model that a PFM representative
20 received from -- from Theranos in January 2014.
21
       A
          Okay.
22
       O
           Do you recognize Exhibit 251?
23
           It looks like one of the models that I worked
24 on.
25
           And I guess -- I guess, just stepping back,
0573
   what is PFM?
1
2
      A It's a hedge fund. I think it's called
3
   Partner Fund Management. I used that as an acronym.
   They had different funds under management, but I used
5
   PFM to refer to that -- all of them together.
6
         Did you provide PFM with a -- with your
7
   financial model in January 2014?
8
      A
          I did.
          The -- were they considering an investment in
9
   Theranos at the time?
10
11
          Yes, they were.
12
          Did Theranos consider PFM to be a potential
13
   strategic partner?
14
       A Yes.
```

- 15 Why is that? 16 When they had approached us in November of 17 2013, their first couple of meetings they had with Elizabeth and then briefly with me in January, again, 18 they were giving us their background about their depth 20 in healthcare, their expertise, their interactions with 21 the FDA, their -- some of the LPs had FDA expertise. 22 So it seemed like a fund that knew of our 23 space very well, and they seemed -- seemed very knowledgeable. And so that was the primary reason. 25 How did you provide this financial model to 0574 1 PFM? 2 A So first, I had shared this model with them on a screen. I projected it in the conference room. And I worked through the model, showed them different 5 assumptions. And then they wanted a copy of this model so they can play around with it, and I gave it to them 7 on a USB stick. 8 Q And did they ask questions about the 9 financial model? 10 A I'm sure that when I was talking to them in 11 the conference room, they did. But I don't think after I gave them the USB stick, then we went together and 12 went through the model after that. But they may have asked me a few questions after that. 15 Q Okay. So just -- I mean, to the best of your 16 memory, the primary conversation about the model was when you were displaying it on the screen, and then 18 after that meeting, you provided it to them on a thumb 19 drive? 20 A Yeah. And if they had any questions, they 21 probably asked me those questions and I answered them, but I don't recall right now. 23 So this first page is -- I'll represent is 24 entitled "Macro Market Assumptions." 25 A Yes. 0575 Sorry, the -- the -- the sheet page doesn't 1 2 show up on the -- on the printout. 3 But what did you intend the Macro Market 4 Assumptions tab to include? 5 There was some data that was what I call constant or fixed that, you know, I had learned from --6 like I said, some data from the CDC and some of our internal calculations or internal assumptions. And I 9 put all of those big assumptions in one tab right here. 10 O If you focus on the top of the page, there's "2014 device cost plus installation/config plus 11 12 training." 13 A Yes. 14
  - What does that refer to?
- 15 It refers to one of the devices, whatever the
- 16 current version of the Theranos TSPU would be,

- 17 manufacturing and training cost for that. 18 So here, the assumption is that the -- in 19 2014, the cost for -- is this for -- does this 20 assumption include manufacturing? 21 Yes. It includes everything. 22 Okay. So building it, installing it, getting 23 it ready to -- to go? 24 And training the people in the CLIA lab or 25 whoever is going to get trained on it and -- yeah, 0576 1 fully loaded cost. 2 Q How did you come up with a 70,000-dollar figure for that assumption? A At that point -- again, this is two 4 5 thousand -- late 2013, so it was a rough ballpark. I was looking at our expenses in manufacturing, how many 7 labor hours it takes in the manufacturing, again at macro level because we were not making enough units to be able fine-tune this yet. And so I probably asked 10 some data from (b)(6); to see what our spending was in 11 manufacturing, how much we are spending on the supply chain. I may have asked (b)(6); (b)(7)(C) 12 to crunch 13 some numbers for me. 14 So it really -- was a really rough ballpark 15 where we thought we were -- or where I thought we were. 16 And how did you decide that 50,000 would be 17 the -- should be the assumption for 2015? 18 Primarily, it was assuming that in 2015, we 19 would improve our manufacturing processes. Our device 20 is going to evolve. Some components will get cheaper. Some of the detection systems that we use in devices 22 were -- were expensive. Like any other electronics, you know, you buy the latest version, it's more 24 expensive. By the next year, it gets cheaper. So there 25 were some pieces that were going to get cheaper, some 0577 1 economies of scale we would have achieved. So again, it was a ballpark, rough estimate. Does -- do -- do any of the assumptions here 3 include costs that Theranos would have to incur for -for either modifying or purchasing third-party 6 commercial analyzers? 7 Yeah. I had included all of the big machines 8 or big equipment somewhere. Here (indicating). 9 Sorry, just for the record, you're pointing 10 to what? It's not paginated, so if you could just kind 11 of flip through and count the pages. I think you're 12 looking at Page 4. 13 One, two -- fourth page, under "Cap Ex,"
- capital expenditure, "Lines of Production."
   Q So in your view, "lines of production" meant
   costs related to third-party devices?
   A Yeah. I mean, third-party devices, also the
   lines of automation that we were putting in the CLIA

lab because we had purchased an automation line for the 20 CLIA lab also. So every -- all of the big capital 21 equipment that we were going to spend money on is 22 included here. 23 Q And the -- the fourth page was -- this is a 24 summary statement of cash flow; is that right? 25 A Correct. 0578 1 Q Did you ever explain to PFM that -- that the lines of production assumption assumes those items that 3 you just described? 4 A Yes. We talked about this. They asked me 5 that question. And I said all of the big machines that we buy for any purposes, for R&D, for labs, for 7 manufacturing, I put here bundled together. Q In other words, it was your understanding 8 that PFM understood that Theranos purchased third-party commercial analyzers for CLIA lab use? 11 A Yes. 12 O And who was -- was that conversation with? 13 I met with them several times, and we used to 14 talk about high throughput as part of the Stage 1 -- or 15 Phase 1, sorry, model, and I used to run some numbers 16 for them about how we would automate something. I 17 actually even showed them some of the machines when we 18 went for the tour in the R&D lab, saying, "These are 19 the kind of machines we use for high throughput 20 processing in our CLIA lab," and these were all 21 third-party big machines. 22 And then, of course, they knew we were doing 23 finger -- venipuncture. And our plan was: When we open the lab in Arizona, I explained to them initially 25 it's going to be a moderate complexity lab where we 0579 will put all the FDA-cleared equipment. 1 2 Q Who from PFM did you take on that tour of the 3 lab? (b)(6); (b)(7)(C) I believe (b)(6); (b)(7)(C) 4 Α believe the third guy, (b)(6); (b)(7)(C) 5 But actually -- you 6 know, actually, it may not be (b)(6); It may be just 7 two. If there was a third, maybe somebody else. 8 9 didn't come on the lab tour. Q What about the explanation of lines of 10 11 production, who do you think you provided that 12 explanation to? With (b)(6); (b)(7)(C) 13 I had a long 14 discussion about that. 15 So I want to turn back to the -- back to the 16 macro market page here. 17 You see there's a -- there's two depreciation 18 lines there. Do you see that? 19 Α I do. 20 Can you explain what the -- the first one

- 21 says, Depreciations PP&E, paren, SL assumed. 22 What does that mean? 23 This is -- I just used the words property, 24 plan, and equipment, so all the heavy machines that we 25 were buying. I assumed a ten line -- ten-year straight 0580 1 line. So I was not using any -- any complicated formulas. I was just dividing it by ten and using that 2 as my assumption. 4 Q And -- and what about "device depreciation," 5 what does that refer to? That -- again, if I looked at the model, the formulas, I would be able to confirm it, but I think it 8 would refer to our TSPUs, the two lines you see above. 9 And how did you decide the period of time 10 over which Theranos would depreciate these assets? 11 A I just picked a ballpark number. There 12 wasn't -- I didn't know what the accounting was going 13 to be. Just for the sake of modeling, I was using these 14 two numbers. 15 Q Did you share these assumptions with (b)(6); 16 (b)(6); (b)(7)(C) 17 I don't think so. Α Did you ever ask (b)(6); (b)(7)(C) 18 how long the --19 the company's depreciation period was for its assets? 20 You know, I may have asked her once about 21 what was our -- you know, the depreciation timeline. 22 The ten years may have come from that, but I don't --23 I'm not a hundred percent sure. 24 Q How did Theranos track the number of devices 25 it had at this -- you know, end of 2013 early 2014 time 0581 1 period? 2 A For the most part, in software because when a device wakes up, it sends its heartbeat to the Cloud, so in the Cloud, we can see which device is there or 5 how many devices. And they were all unique. They had a serial number. But then we also had a log in 7 manufacturing where they tracked it. 8 Do you have a sense of how many 3.0s or 3.5s 9 the company had around this time period? 10 A End of 2013, I would say 2 to 300 would be a 11 good estimate. 12 Q Were they -- were all 2 to 300 in use in 13 the -- either of the R&D or CLIA labs? 14 Yeah. I think I answered the question yesterday. That they used to rotate because they are such small devices, they're so easy to move, that they
- would keep rotating.
  Q I guess, in that refurbishing or servicing
  process, would it ever be the company's practice to
  sort of use a machine for parts?

would be rotating between R&D, CLIA, manufacturing would be refurbishing them, servicing them, so they

23 Or to just break it down and --24 To break it down and say, "This piece is 25 still good. The rest of the machine is not working. 0582 1 Let me use this piece in another device"? 2 A I would say yes, but I'm not sure about that -- that level of detail, but I would -- my common 3 sense would say yes. 5 Q Who at Theranos was responsible for 6 overseeing the manufacturing process for TSPUs? 7 It evolved over time. Obviously when we were 8 a small company -- you know, when I joined the company there were, I think, ten people in manufacturing, and 10 there was a guy, (b)(6); (b)(7)(C) but then within 11 six months of that, we had hired another guy. (b)(6); (b)(7)(C) 12 (b)(6); (b)(7)(C) and he kind of grew into that role of 13 managing not just the R&D but also the production. 14 So -- and then ultimately I believe in 2013, 15 we hired a full-time VP of manufacturing. (b)(6); (b)(7)(C) So -- and then he basically took over 16 17 the whole manufacturing. 18 Who did those people report to? reported to me. (b)(6); (b)(7)(C) 19 (b)(6); (b)(7)(C) also reported to me, I believe. (b)(6); (b)(7)(C) I think reported 21 to Elizabeth. 22 BY MS. CHAN: Is (b)(6); (b)(7)(C) 23 familiar with the development 24 of the 4 series miniLab? 25 Not necessarily. He was more in 0583 1 manufacturing. He would only come at the tail end. 2 Oh, I see. Okay. 3 So who was involved in the R&D process of 4 developing the TSPUs? 5 A There were a lot of people. It was -- like I 6 said yesterday, it was a very collaborative process. 7 You would have software developers, electronic 8 engineers, chemists, and obviously mechanical 9 engineers. So there were a lot of teams working together. But there was no one person would owned it. 10 I would say both Elizabeth and I owned it together, but 12 I would, you know, even with that, say, like, 10 percent. 80 percent was a collaborative team effort. 14 Did the 4 series ever go into production, 15 into manufacturing? 16 Yes, it did. We actually submitted our 17 510(k) to the FDA on a 4 series device -- on a bunch of 18 4 series devices. 19 So they're in production? Q 20 Well, I don't now about now. 21 Or at the time that you left the company? 22 I mean, I don't know. By "production," do 23 you mean were they in the CLIA lab? 24 Were they being manufactured by Theranos --

```
25
       A Yes.
0584
1
          -- in bulk?
2
          Yes. We were always manufacturing those
3 but -- by bulk. Our manufacturing lines, we had made a
   significant investment in Newark. It was just an
5
   amazing facility. And we could -- we had estimated we
   could produce about 200 devices a month, but we hadn't
   gotten to full throttle yet. So I think we were about
7
8
   30 devices a month production capacity.
9
         And most -- some months, we were backed up
10 because we would have this new modification we made and
   now we needed to make changes, so all these --
   manufacture would get busy, and then some months, the
   R&D guys would say, "Hang on, we need to make some
14
   changes before you make anything."
15
          So it was kind of more of a creative a
16 process.
17
          BY MR. KOLHATKAR:
18
       Q If you'd take a look at sort of the box below
19
   there. Still on the first page --
20
       A I'm sorry, yeah.
21
         -- of Exhibit 251. "Retail Pharmacies,"
22 there's a number that says "revenue per requisition."
23
          Do you see that?
24
          I do.
25
           How did you determine what the average
0585
1 revenue per requisition would be?
2
         Yes. Again, it was a guess that -- Safeway
   and we had worked together on this thing, and the way
   we reached this number is the following:
5
         We had access to what other labs were
   charging Medicare because Safeway had a lot of data on
6
7
   lab patients. And then we also, I think over time,
   acquired data from Medicare directly because you can
   buy data from Medicare. Anonymized, of course. And we
10 looked at what is the average requisition that a
    Medicare patient has. An average requisition for a
12 Medicare patient was about -- I don't know if it was
   mean or median, but the average was about $80 -- $65 to
14 $85, just like it says here.
15
          And then Safeway and Theranos, back then, had
16 decided that we wanted to be better, and cheaper, and
17
   all the other advantages, so we picked 50 percent of
18 Medicare as the line that we would draw and say, "Okay.
19 We will shoot for that." And the 50 percent of Medicare
20 would have been about 40 to $45. And we went further.
21
    We used $35 to be conservative as the estimate.
22
          Did Theranos ever conduct an analysis to see
23 if it could break even while charging, you know, half
24 this cost to Medicare for -- for patient testing?
25
0586
```

A Yes. 1 2 Did that happen throughout 2013 and 2014? 3 I don't think it happened in detail in 2013. But in 2014, I had generated many models. It was volume driven, of course. You know, it's like a 5 restaurant. If you have one patient coming, you don't 7 make money, and if you have sufficient, you make money. 8 So I had done an analysis, and I had looked at, you know, different assumptions again. And our 10 revenue per requisition, in reality, ended up being higher than 35. In Arizona, I think we were getting 12 about 44 or \$45 over an extended time. And so 13 obviously, you can fine-tune those assumptions. 14 And as we learned more about how much a 15 phlebotomist is going to cost, what's the fully loaded cost for different things, at some point -- I don't know if it was 2014 or '15, but I had created a very 18 complicate -- comprehensive model that had every single 19 detail all the way to gas, and car wash, and other 20 things. 21 Did that include the cost for maintaining O 22 third-party analyzers in a centralized CLIA lab? 23 Yeah. I mean, that was under a CLIA lab cost. So there's not -- it's difficult to separate out costs of maintaining third-party analyzers. It 0587 1 included the CLIA lab cost. That would include labor 2 and everything else in the CLIA lab, including 3 reagents, of course. 4 Q The --5 BY MS. CHAN: 6 What was your break-even point? How many tests did -- did Theranos have to conduct in order to break even on its costs? 9 A I won't recall because it was changing over 10 time. As we were investing more in R&D, obviously the break-even point changes. But -- so I won't -- I mean, 12 I'll have to be specific at a time point. 13 But I think on average, it was about, you 14 know, 15 patients or 20 patients a day, again assuming a certain volume. If you're only in location, at 15 patients a day, you're losing money. You have to be in 17 a whole bunch of locations to break even. 18 BY MR. KOLHATKAR: 19 Q Did you have a sense in terms of number of 20 stores Theranos would have to be in before it would 21 likely have the opportunity to break even? 22 A I don't think it was a matter -- a factor of a number of stores, it was a number of requisitions and patient samples, which is why samples was very 25 important even more than patients per day. Because 0588

1 like I said earlier, if somebody brings multiple 2 samples -- it is the value of the requisition that

mattered other than how many people you are getting. Right? If somebody comes in with an expensive test, 5 you make more money. So it depended on that more than number of 6 stores. Number of stores was just a really weak indicator of growth. Because you could be in, you know, 500 stores and you're getting ten patients a day 10 or you could be in, you know, 200 stores and getting a hundred patients a day. Right? So it was more 12 important that we are getting more requisitions, more 13 valuable requisitions, and then of course more 14 patients, and then how many locations you have. 15 Q I guess, did you -- did you have this view in 16 2014 that number of stores was a weak indicator of 17 growth? A Yeah, of course. It's evident from the 18 19 model. 20 Q How so? A Because if you just look at the 21 22 assumptions --23 Okay. Again -- you're ahead. I want to 24 circle back to that point. 25 Yeah, of course. 0589 BY MS. CHAN: 1 2 Q Can I just clarify. 3 So when you said 15 to 20 patients per day would break even, is it patients or is it requisitions? You were making a distinction there. 6 A Yeah. Like I said, it depends on the time point, and I'm giving you a very rough figure from memory without knowing which time point we are talking about. But if you get highly valuable requisitions, 10 then even 12 would -- or 13 would have been fine. 11 And there was, actually, I think one analysis 12 I had done where 10 to 12 patients or 13 patients was sufficient. And another, you know, 20 was sufficient. 14 So it was -- it was a wide change. Obviously, as we 15 learned more, it got more and more fine-tuned as we 16 get -- got more data from the field. 17 Q Is that patients or requisitions from the 18 field? 19 A I don't know. That's what I'm saying, is 20 that I didn't have enough data. So you can slice it any way. Either you can say it was 12 to 20 patients or 22 12 to 20 requisitions. It doesn't matter. It's the value of the ticket that matters. So my range was 24 pretty broad and we were still learning, like I said 25 earlier. 0590 1 So you could assume requisitions doesn't really matter. I think my point is: At the end of the 3 day, it doesn't matter. Q Okay. So when you said 15 to 20 -- you 4

```
5 remember it at some point being 15 to 20 patients per
   day. When was that?
      A I don't know. That's what I've said several
7
8 times. I don't know the time point. This number would
9 have changed depending on how much were -- we were
10 spending on R&D, whether we were going to spend more on
11 R&D. You can also modulate those assumptions. If you
12 assumed we are going to reduce the R&D burn, R&D
   expense, then the patients per day or requisitions per
14 day goes down.
15
          So there were a lot of inputs that went into
16 coming up with that pretty broad range, which is why it
   was not the most important thing that I focused on. I
17
   was more focused on the overall growth.
18
          MR. KOLHATKAR: We'll go off the record at
19
20 1:50.
21
          (A brief recess was taken.)
22
          THE VIDEOGRAPHER: Rolling.
23
          MR. KOLHATKAR: We are back on the record at
24 two zero -- 2:03 p.m.
25
         BY MR. KOLHATKAR:
0591
         Mr. Balwani, just to confirm, we didn't have
1
   any substantive conversations during the break; is that
3
   correct?
4
      A That's correct.
5
      Q Before we went on break, we were discussing
   Exhibit 251.
6
7
         Do you recall that?
8
      A Yes.
9
      Q And I want to return to that exhibit now.
10
       A Yes.
11
          I guess looking down at some of these other
12 macro assumptions, there -- there's an assumption in
   the ER space for annual tests per miniLab ratio.
          Yes.
14
       A
15
       O
          What does that represent?
          I don't know exactly. I will have to look at
16
17 the formula and -- and make sense out of that. It's a
18 ratio. So I don't know what it is -- what numbers are
19 being divided out.
20
       Q Okay. Based on the description, would you
21 imagine it to be the -- it's the number of tests
22 divided by the number of miniLabs?
23
          That's what the formula -- I mean, the
24 expression says here, but I don't know what the logic
25 behind 6,000 is.
0592
1
      Q I mean, did you -- did you have a sense at
   that point in time how many samples a TSPU could run in
   a year?
      A Not in the ER setting, not by a long shot,
4
5
   not by a long shot. And ER and ICU were not part of
   our models for a very long term yet.
```

Okay. So, I guess, what were these -- why were -- why -- why did you have assumptions for the ER and ICU here? 10 A Well, like I said, earlier, as I learned 11 information from the market, I would just add things 12 here. And these are important things that I had 13 learned by doing some research, and I didn't want them 14 to get lost in some other document somewhere, so I just 15 put them here as an FYI. And it says at the top it's 16 just market data. But there was no other logic behind 17 it. And certainly, like I said, it was not part of any 18 model. 19 Q If you turn to the next page, which is a 20 printout of a sheet entitled "Theranos Market Assumptions." 22 A Yes. 23 O This might be a little small. Let me know if 24 you're able to read it. 25 I guess, generally, can you describe for us 0593 1 what this sheet explains. 2 Yeah. This sheet includes additional 3 assumptions in addition to what was on the first page. So I had split the assumptions, which are more general and global in nature on the first tab, and then assumptions that were changing by either month, or by 7 quarter, or by year on the second page. 8 Okay. And so -- and where are those changing 9 assumptions reflected on this sheet? 10 So there are several things here. It's kind of all over the place. But the assumptions are the number of Walgreens locations or stores. That's the -unfortunately, I don't have cell and columns, but under 14 January 14, there's a cell under Walgreens. Do you see 15 that? 16 Q Yup. 17 So that. And then "Other Retail Pharmacy" 18 would be whatever other retail pharmacy locations. The third line is the addition of those two. Then is the 20 prescriptions -- actually, that's -- the "RX" means prescriptions per day per location, and that's the assumption there for Walgreens and retail pharmacies. And the final one is the total of locations times 24 prescriptions per day at -- at a given location. 25 And was prescriptions another way of 0594 1 describing requisitions? 2 That's right. That's correct. 3 O And --4 That's what -- that's what I remember now 5 from looking at it. 6 And the first -- the first description on the -- at the top -- in the top left there is "RX 7

locations."

```
Does that -- does that refer to pharmacy
10 locations?
       A Yes.
11
12
           The -- and then sort of below those
       0
13 assumptions in terms of locations and requisitions
   per -- per location, there's a set of assumptions --
15 there's a set of figures there.
       A Yes.
16
       Q Do you see that?
17
18
          One's related to retail pharmacies,
19
   physicians' offices, hospital courier, hospitals on
20 site.
21
          Do you see that?
22
       A Yeah, I do.
23
          Can you walk just through those and explain
24 what -- what those categories represent in the model.
25
           Sure. So the retail pharmacies is just the
0595
1 summation of what you see above. So it carries forward
   the number of total retail locations, number of
   patients processed during that month. So if you look
   at the formula, I'm sure it is multiplied by either 26,
   or 28, or 30 days a month. I don't know what I
   assumed. And shows you the revenue coming from that
7
   bucket.
          And so -- so would you -- essentially, would
8
      Q
   the revenue be sort of the per-requisition average
   multiplied by the number of patients processed?
10
11
12
       A Yes. And most likely, if you multiply 3,200
13 by 35, I think on the previous page, you'll probably
    end up with this number. And then it carries over --
15
          MR. FOLEY: 3,300? Are you looking at --
16
          THE WITNESS: Oh, 33. Yeah, sorry. It's
17 kind of small writing.
18
          MR. FOLEY: Yeah, understood.
19
          THE WITNESS: Yeah.
20
          BY MS. CHAN:
21
       Q And is patients and number of patients
22 processed here, is that the same as requisitions above?
       A Yeah. I'm using them here -- loosely here.
23
24 And also, you probably know, maybe I should highlight
25 that. "RX" is really pharmacy prescriptions in
0596
1
   general. "DX" refers to diagnostics per prescription,
2
   but I again used "RX" in the -- in the wrong way here.
3
         And then the third one is the hospitals --
4
         BY MR. KOLHATKAR:
5
      Q I'm sorry, I think I interrupted you before
   physicians' offices.
      A Yeah. And what I was going to say is: Then
   you can see month by month, as you change these
   assumptions all the way at the top for RX locations,
9
10 this column changes. So once you go from January to --
```

```
11
    from 11 to 41, then 40, then a hundred, these numbers
12
   get reflected in the retail pharmacy bucket. Make
13 sense?
14
       O What about the physicians' offices lines, can
15 you explain those.
       A Yeah, I was going to get to that next.
16
17
          So the physicians' offices assumptions were
18 the number of physicians' offices, where we were
19
    picking samples -- going to pick samples from. So our
20
   plan was: As we launched in a given geography, once we
21 had the retail footprint, then we would also, because
22 we already had the insurance contracts, and independent
23
    labs, basically go and pick up samples from physicians'
    offices, we would also do the same and go pick up
    samples from physicians' offices for processing in the
0597
1 lab.
2
         These would not be finger stick samples.
3
   These, in most cases, would not even be our
   Vacutainers. Physicians do all their own draws today in
   their offices, many of them do. Some -- the larger
   ones, the lab will put a phlebotomist on site if
   there's sufficient volume and if the law requires --
   law allows. So that's what -- what the physicians'
   offices are. Sorry.
10
       Q And how did you -- how did you come up with
11
   the -- your assumption for the number of physicians'
12
    offices that would open -- that you would be collecting
13 from given a -- given a retail footprint?
14
       A It was a bottom-up assumption based on how
15 many samples our lab is going to be able to handle.
16 And the assumption was: As we grow, there would be
    certain physicians in a geography. And I think in
18 Arizona -- I forgot what was the right number. Arizona
   had 6,000 physicians maybe, or 4,000. I forgot the
20 right number now. That we would be able to capture a
21
    certain percentage of that market, and a certain
22
    percentage of that, we'll be able to process in this
23
   lab and in this lab. So it was more of a bottom-up
24 kind of calculation.
25
          And if you look at the next number, you'll
0598
1
   actually be able to see further assumptions. 17,600
   divided 40 -- I don't know what the -- and then --
   again, if I had the formula, I would be able to tell
   what assumptions I'm making here on how many samples we
   are picking up per day from the physicians' offices. I
   had made it more clear for the retail locations. For
   physicians, I just lumped all the values in this cell.
7
8
         Does that make sense?
9
          Okay. Yeah.
10
          The -- what about the hospital couriers?
11
       A It's a similar model as physicians' offices,
12 but in this case, you are picking up samples from a
```

```
given hospital location. And again, this is just a
14 pure courier model. Like pick up samples, you have
15 samples that you can process faster, or cheaper, or for
16 whatever reason the hospitals cannot provide, and then
17 like independent -- other independent labs, you'll be
18
   able to process those samples for them.
19
          And again, these numbers are bottom-up
20 assumptions. We look at how many hospital -- and
   hospital is also the Accountable Care Organizations,
22 the physician networks that are owned by hospitals, how
23 many locations they own. And you just do a bottom-up
24 analysis of a certain percentage you'll be able to
25 capture in the market.
0599
1
         MR. MCKAY: Can you slow down just a little
2
   bit.
3
         THE WITNESS: Sure. Sorry.
4
         BY MR. KOLHATKAR:
5
      Q I guess, in this -- in this model, why did
6
   you assume that the -- sort of the hospital courier
   component would ramp up after the physician pick-up
7
8
   component?
9
      A
         The reason for that is: In most cases, you
   are calling on physicians first. So when you launch in
    a market, even when you are doing retail, like
   Walgreens, and CVS, and others, you are still calling
13
    on physicians. We were calling on physicians starting
14 2013 because physicians have to write the prescriptions
15 to send them to all the Walgreens locations.
16
          So you make an assumption that you have
17 already called on physicians. We already know
   sufficient physicians who would -- who we can pick up
    samples from because a lot of physicians draw blood in
20 their own office, like I said, and it will be faster.
    Most likely, you will be able to do those faster
22
   than -- before than hospitals.
23
          And the other reason was also, about ten
24 years ago, 80 percent of the physicians were
25 independent and 20 percent worked for hospitals. The
0600
1
   last ten years, the equation had changed. I think now
   it's 60/40, 60 percent physicians work for hospitals
   and 30 percent work for -- they are independent, 40
   percent are independent. Ballpark numbers. I'm not
5
   exactly sure. It obviously changes by -- market by
   market.
6
7
         But the assumption was -- I think in Arizona,
8
   we had more physicians that we were calling on sooner,
   and then hospitals in Arizona would have been probably
10
   a little bit longer cycle.
11
          Why is Theranos considering servicing the --
12
   the -- sort of the doctor's office market for -- for
```

A Every lab does that. That's part of the lab

13

14

lab care services?

15 industry. So Quest Diagnostics and LabCorp, they pick
 16 up samples from labs -- doctors' offices. You already

17 have insurance contracts. Besides, the insurance

18 companies like it because our prices were lower. We were also billing Medicare 50 percent.

So the -- most of the advantages of retail

21 location except for obviously being in the retail

20

3

5

6

7

8

9

10

11

20

21

22

23

9

22 location applied in physicians' offices also. You pick

23 up the samples -- we control the billing, and that was

4 an important part of this, and -- and we would bill the

25 insurance company what we had agreed on with the 0601

1 insurance company. So -- and basically that meant 2 whatever prices we have advertised.

Also, Arizona had a lot of out-of-pocket patients who otherwise couldn't afford lab testing, and we were offering the same prices that we were offering at retail locations and physicians' offices.

Q For the physicians' offices, was -- was it Theranos's proposed model to -- to distribute a TSPU to those locations? Or it sounds -- sounds like it was to operate it in -- just pick up venous draws and process in the CLIA lab?

A Yeah. It purely means courier. This was not -- we couldn't distribute the TSPUs to physicians' offices without FDA clearance, so that was not part of the plan. Ultimately in the long term -- definitely, it was part of our original because that, you know, hopefully four or five years from -- from now, it changes the game in physicians' offices if you can do the test and see the physician in the same office.

And we believed that our TSPU, you know, I thought, for the first time in history, will be able to provide that -- that kind of healthcare. So -- but it was not part of this model, though.

Q And for -- just so I understand the model, the physician's office courier model doesn't include 0602

1 any finger stick, is that right, it's just collection
2 of -- if the doctor is able to collect blood venously
3 on site?

A Exactly right. Most doctors do venipuncture today, maybe most -- a lot of doctors, but I think it's most. They do venipuncture in their offices today. They have trained nurses. In some cases, doctors can do it. But mostly they have a physician's --

THE REPORTER: Can you slow down, please.

THE WITNESS: Most of the cases, they will have a physician's assistant or a nurse who will draw the blood. And they will pack it, they will put labels on the samples, they will put the requisition. If they have EMR connectivity, electronic medical records connectivity, then the transaction goes to the lab

16 automatically. And then if it is a manual process,

then the physician will call the lab and say, "Hey, I 18 have samples for you today." 19 And in many cases, the labs will provide the 20 physicians with the kits, collection kits, so that the 21 lab can process the samples the way lab is expecting 22 to. Like I mentioned yesterday, there were some assays 23 that are validated on serum and plasma, and different labs do it differently, so you need different tubes. So labs would provide that to the physicians. 0603 1 But our model here was just pick-up. 2 And is that the same for the hospital model -- courier model here, that it's just pick-up of venous blood? 5 A Well, venous blood and nasal, urine, feces, all matrices. Q But you weren't -- you weren't proposing to -- to -- let me correct that. 9 This model in Exhibit 251 wasn't, in your 10 view, representing Theranos distributing the -- the CTN and having hospitals conduct finger sticks for this 11 12 courier aspect? 13 A At some point the answer is: Yes. It 14 doesn't impact the model, though. Just like if you 15 look at retail, whether the patient is getting finger stick or venipuncture doesn't really impact the model. 17 So if we had received FDA clearance in the time 18 frame -- in the -- during the life of this model, we could -- absolutely could have distributed our CTNs. 19 20 And that would have been great. I mean, I think we 21 could have gotten even more volume. 22 But here, this model does not assume either 23 CTNs versus finger stick here. I mean, if you include 24 them, it doesn't change because we were not charging 25 more or less for finger stick or venipuncture. 0604 Would it have affected Theranos's cost on the 1 back end whether -- whether tasks were performed using 3 a Theranos CTN or a traditional venipuncture? 4 A I don't think that reagent cost was a 5 significant factor. The simple answer is: Probably yes. But the reagent cost for processing samples in the total cost equation is pretty small except for some tests, and in those cases, we probably would have developed our own test to reduce cost. But in general, 10 I would say it's not significantly material once you're 11 hitting a reasonably large volume. 12 O In 2013, was it cheaper for Theranos to --

Q In 2013, was it cheaper for Theranos to -to -- to build a nanotainer or buy a venous draw tube?
A Because in 2013, our volume was extremely low
and Vacutainers are bulk produced by millions and
billions, actually, and we did have a good deal with
Becton, Dickinson or whoever the supplier was. My
guess is: The venous puncture tubes is cheaper, just

the cost of the tube itself, but I don't know if that 20 necessarily meant the entire requisition was cheaper. 21 But having said that, obviously, as the 22 volume increased, our CTN cost over time would have gotten cheaper. It's just, you know, a simple law -averages of law volumes, and then it would probably 25 would have been cheaper. 0605 1 The model here lists for -- for January 2015 the number of Walgreens locations as 1,100. 3 Do you see that? 4 I do. A 5 Q In -- in January of 2014, did you expect Walgreens to have opened 1,100 Theranos locations? 6 A Not exactly 1,100. But in January of '14 when we had these amendments signed with Walgreens, I 9 recall that our model with Walgreens at that point was: 10 Walgreens performing the finger stick, we providing the 11 CTNs, not -- us not hiring phlebotomists in the field, 12 it was going to be their labor, we will just train the 13 trainer and they will train all of the technicians and 14 they would handle all of the operations in the PSCs, our expectation was that we would scale very rapidly. 16 And Walgreens used tell us they're execution machines. 17 So like -- I think I already answered your 18 question, that not exactly 1,100. Q Did you have any sort of exact figure in your 19 20 mind about where you expected the Walgreens rollout to be by January 2015 as of January 2014? 22 A I didn't have an exact number, which is why I 23 was using this as a modeling exercise to see in two or 24 three years, we want to get to a ceratin number. But I 25 wasn't sure if -- for sure in a certain month, or even 0606 a certain quarter, or even a certain half a year we 1 2 will be able to hit those numbers exactly the way they 3 are in the model or not. 4 What about with respect to the February 2014 number, do you see you go from 11 stores to 21 between 6 January and February 2014? 7 A Yes. 8 Q Did you have reasonable confidence in January 2014 that Walgreens would go to 21 Theranos locations 10 by January 2014? 11 No, I don't think so. 12 So how did you set the assumption for 10 13 additional stores for the next month? 14 I think there are two answers. One is: It 15 was a model, so I had to start somewhere, and I started 16 with 11 in January of 2014. The other thing is: If we

missed a month, and I showed this to PFM and I showed it to a bunch of other people, all you had to do is go to that column header that says "January 2014" and 20 enter "March 2014," and it shifts the entire model out.

21 So -- as a matter of fact, when PFM 22 invested -- signed the investment agreement, it was February 4th, and at that time, this model showed that 24 we had 11 Walgreens locations. And clearly we didn't, 25 we only had three. So it was well understood that this 0607 1 is just a modeling exercise, and one could plug in numbers based on as we learn and as we move forward. 3 Q You mentioned that there were some other investors that you provided that explanation to. Who 5 else do you remember providing that explanation to? A Nobody specific. But it was a common thing 6 that I would do when I brought up the model. I would 8 say, "Here is how you manipulate it and here is how you change it. And here's the column header. Just modify 10 this." So I would -- used to just basically give a brief overview of the model before I give the model to 12 anybody who wanted a copy. 13 Q The -- if you look further down in the --14 again, this is the Theranos Market Assumptions page of Exhibit 251 -- there's a section at the very bottom there for miniLabs new production? Bottom left --16 17 Yes, I see that. 18 What does this set of rows represent? O 19 This is an estimate of how many new units of 20 our TSPUs we had to produce based on these assumptions. And as a matter of fact, if you look at the formula behind these, you will see they're linked to something, some math based on the assumption model -- assumptions 23 24 in the model. 25 In your mind at the time, why was Theranos's 0 0608 1 growth here related -- how would that impact the miniLabs that it needed to produce? 3 A It was a rough assumption that a certain percentage of samples, you'll be doing on finger 5 sticks. And obviously -- again, this is the end of 2013. We were in three stores. Two of those three 6 stores had just opened a month ago. So we didn't have 7 enough data. But for the sake of modeling, I made some 9 assumptions that, you know, if X number of samples come from finger stick and you run them on TSPUs and on 10 other machines, then this is how many units you will 12 need. 13 So if you have spreadsheet, you'll be able to see the formula behind this linked to the volume 14 numbers from different locations. 15 16 O I want to turn the page to the next sheet 17 which is mercifully easier to read. And it's entitled 18 "Projected Statement of Income." 19 Do you see that? 20 I do. A 21 And I guess just as a general matter, what --22 what did this sheet in the workbook represent?

23 Yeah. So this basically is an output of the 24 assumptions one would manipulate in the model. So as 25 you change any assumptions on Page Number 1 and Page 0609 1 Number 2 of this model, they will just bubble up to this page and the next pages here. So it's -- it's a 2 summary of what was shown in the pages back there and some additional information. 5 Q If you look at the period ending -- the period ending 12/31/2013, if you look under the "Revenue, U.S. Commercial Only," it's listed as 25 7 million for lab services from U.S. retail pharmacies. 9 Do you see that? 10 A Yes, I do. What does that number represent? 11 12 At that point in my mind, that meant the 13 25-million-dollar innovation payment that we had 14 received from Walgreens, is I think what is -- what is 15 this referring to. 16 BY MS. CHAN: 17 When did you receive that payment? 18 A I think it was in early 2013, January time 19 frame, something like that. 20 BY MR. KOLHATKAR: 21 Q Do you know if Theranos -- I mean, do you 22 think you were representing to -- to PFM that Theranos had \$25 million in revenue from its retail pharmacy 24 services as of the end of 2013? 25 A No. 0610 0 1 Why not? Because PFM knew that we were in three locations, two of them we had just launched. I explicitly talked about this number and I told them that as part of the Walgreens contract, they have a 5 6 hundred-million-dollar commitment to us. That's \$25 million. We have another \$75 million coming. 7 8 Q Okay. But I guess did you -- did you not view that \$25 million as being Theranos's revenue 10 for -- for 2013? 11 MR. COOPERSMITH: The question is a little 12 vague, but if you understand it, you can --13 THE WITNESS: Yeah. I was going to ask you 14 to clarify that because I don't understand the 15 question. 16 BY MR. KOLHATKAR: 17 In your mind, was -- did Theranos earn \$25 18 million in revenue in 2013? In my mind at that point, yes. 19 20 Q Did that understanding change over -- at any 21 point in time? 22 No. I mean, we were starting to modify the

contract. But no, at that point we had -- I was -- the

24 \$25 million that were coming in 2012 was my

```
25 understanding that that is revenue.
0611
1
         BY MS. CHAN:
2
      Q What is your understanding of when revenue
3
   can be recognized?
4
      A That, I don't know. And I used to --
   actually, when I met with PFM, I made the -- exactly
   the same statement that you asked me right now, is: "I
   don't know how this is going to get recognized, but
8 this is cash in the bank. According to our contract,
9 this is nonrefundable. So it is here. You can" -- "in
10 your model," PFM, or (b)(6); whoever I was talking to,
11 "you can use it any way you want. You can move it into
12 2014 or 2015. I don't know how this is going to get
13 recognized, but I want to alert you that we have
14 received this cash." That was a conversation that I
15 had.
16
          And from what I understood, he told me in a
17
   brief conversation later that they had looked at this
   model and they put it aside and created their own
19
    model, and in that, they had assumed zero revenue. And
20
   I think they testified to that also at the PFM trial.
21
          You mean deposition?
22
       A
           Sorry, deposition. Sorry.
23
          The -- I guess, did you take any steps
24 internally to check to see if -- if Theranos had
25 retained $25 million in 2013 when -- when building this
0612
   model?
1
2
          No, I did not.
          You didn't check this number with (b)(6); (b)(7)(C)
3
      Q
   did you?
5
      A No, I did not.
6
      Q Do you know what Theranos ultimately reported
   in revenue on its taxes in 2013?
      A I would not recall. But like I said, I
   wasn't sure how this was going to get reported from
   accounting standards. We didn't have audit financials,
11
    so I just wanted to really make sure this is -- that's
12 clear.
13
           Did you always make that clear to investors
14 that Theranos didn't have audited financials?
15
       A Yes.
           Did any investors ever ask if Theranos
16
17 maintained audited financials?
18
       A I mean, if some -- I don't recall explicitly
    somebody, but if somebody would -- had asked me, I
20
   would have said, "We don't have the recent audited
21
    financials," and that was the truth.
22
          Did you ever hear Elizabeth Holmes tell
23
        investors that they couldn't -- that Theranos
24 couldn't share its audited financials?
25
          I don't recall it, but that would be correct
0613
```

```
because we didn't have it. That's why she couldn't
2
   share.
3
      Q Did she provide that -- do you ever recall
   her providing that --
5
      A I don't know. I'm guessing here. I'm just
   saying I didn't -- never heard her say it.
6
         MR. COOPERSMITH: Mr. Balwani, you don't have
7
8
   to guess.
9
         THE WITNESS: Oh, sorry.
10
          MR. COOPERSMITH: Just answer the question if
11
   you have knowledge of the answer.
12
          THE WITNESS: I apologize.
13
          BY MR. KOLHATKAR:
14
       Q Again, this is not a memory test. If you
15 don't remember --
16
       A I don't remember.
17
       O -- there's no penalty.
18
       A Okay. Thanks. I appreciate that.
19
          The -- so just to make sure I understand your
20 answer, do you ever recall Ms. Holmes telling any
    potential investors that the company couldn't share its
   audited financials because of sensitive information in
23 the footnotes?
24
       A I don't recall.
25
           The -- the model also shows expected revenue
0614
1 from -- so I think -- is it -- is it fair to say that
   the -- the 12/31/14 numbers, the 109 million, 72
   million, 50 million, would -- would roll up from the
   last sheet?
5
      Α
          Yes.
          There's a 30-million-dollar number below that
6
   for pharmaceutical services.
8
         Do you see that?
9
      A I do.
10
       Q How did that -- how would that number get
11 generated in this financial model?
12
       A I think in 2013, we had ballparked -- I
   forgot what was the calculations we used. And again,
14 if I see the formulas, it may refresh my memory. But
15 that in 2014, at some point, we would revive our
16 pharmaceutical business, and -- and we projected that
17 if we do X number of samples and we provide software
18 services, then this is probably what we will be able to
19 generate from pharmaceutical companies.
20
          When -- when creating those assumptions about
21 what you would be able to generate from pharmaceutical
    companies, did you -- did you compare Theranos's
23
   historical revenues for -- for pharmaceutical
24 companies?
25
       A
          No, I did not.
0615
1
      Q
          Do you know if anyone did at Theranos?
2
          Not to my knowledge.
```

3 I guess I'm trying to understand how in 2014 -- at the start of 2014, I understood your earlier 5 testimony to mean that -- to be that Theranos wasn't actively engaged in -- in work with any pharmaceutical 7 companies; is that --8 A Correct. 9 I guess, how did you expect Theranos to 10 generate \$30 million within a year if it wasn't actively trying to do anything on that front? 12 A I think it was the combination of two things 13 that I alluded to earlier, which is: We knew -- we had conversations with Walgreens that they were already priming that channel. That once we were ready to 15 16 process more samples, we would have an opportunity 17 to -- to do more clinical trials which are usually more expensive than a typical patient requisition. And then 19 we probably would have started engaging in pharmaceutical companies also directly. 21 In your mind, you expected that to be able to 22 generate \$30 million in revenue within a year? 23 That was my -- my -- my estimate, yeah. 24 I guess, what was that estimate based on? 25 How many number of samples we will be able to 0616 1 process in a typical pharmacy coming from clinical trials, and I think we had assumed, again in discussions with Walgreens, that, you know, one out of ten patients -- or 10 percent or 15 percent of the 5 patients we can get from pharmaceutical trials. 6 But again, I'll have to look at my notes in 7 the model or other places to be able to refresh my memory. I forget what were the assumptions, but there 9 were some assumptions that had gone behind this. 10 Q The -- the revenue section also includes a 11 section on costs for revenue just below that. 12 Do you see that? 13 A Yes. 14 Q How were these numbers generated in the 15 model? 16 A I think I had assumed -- again, at this point 17 we didn't have enough data, so I had some cells in the model where I had made an assumption that retail pharmacy would be 30 or 35 percent of the cost and -of the revenue and others were going to be different. 21 So it was some percentage that I had assumed off the 22 revenue. 23 BY MR. FOLEY: 24 So meaning, you just -- you assumed a certain

25 margin based on the -- the revenue that the model 0617

1 calculated?

2 Correct. And as we got more knowledgeable about those numbers from retail pharmacy and then ultimately from physicians' offices, we get more -- got

more knowledge, I fine-tuned that number as we moved 6 on. 7 So as you came to understand the granularity of costs that were associated with it? 9 A Exactly right, yeah. And at some point, like 10 I said earlier, we had created a very granular model market by market. We had created a model for Arizona with, you know, gas prices, and car washes, and all 13 those things fully loaded that came pretty close to the 14 assumption that I started with. 15 So what was the basis for your initial margin 16 assumptions? 17 A It was high-level assumptions based on what 18 we -- I saw in the field. And also, I may have consulted (b)(6); (b)(7)(C) or Safeway may have also looked at 20 what Quest and LabCorp costs for work -- for certain services. So I may have made a bunch of assumptions 22 that went to this one to start with in 2010, 2011, and then they kind of stuck. And over time, as we got our 24 own data, we started refining this. 25 But at the time of this calculation, it was 0618 1 just you didn't have the -- the detail understanding this is a top-down? 3 That's right, yeah. We didn't have detail. 4 BY MS. CHAN: 5 Q So at this time, this was, say, you know, three months from, I guess, the soft launch in 7 Walgreens. 8 A Yes. 9 So you had already been -- or Theranos had already been conducting patient testing for a few 11 months at that point; is that right? 12 About a month and a half or so, yeah. 13 So wouldn't you have had some of these costs 14 to include in here sort of how many nanotainers are being used and what the cost is for that, the cost of 16 the courier services that you're using to courier the 17 samples back? Why wouldn't you use those costs in your 18 cost assumptions? 19 The reason is: The volume was really, really 20 low. We were in three locations. So you hired a courier and that person goes to two locations versus as you grow 12 months from then, they can go to 20 locations. And I didn't have enough knowledge --24 ultimately obviously, I did, but in -- a month into 25 this operation, I didn't have enough knowledge to be 0619

able to make those accurate predictions. The data that

It's like open -- like I said, you want to

only have one restaurant and five customers, it's

open a restaurant chain with a thousand stores and you

I was getting from our field was just too early.

1

2

3

```
difficult to model what will be expenses throughout the
   thousand restaurants based on that one little -- it
   gives you some insight, of course, and you begin to
10 understand, especially if you've been paying attention
11
    to the industry, and you start to pick up those things.
12
          And I was talking to, like I said, Safeway
13
    quite a bit and -- and initially also to Walgreens to
    get a better feel. Walgreens had hired, I think, two
    or three people from Quest Diagnostics, and one of
16 the -- one of them, I think, was a president in Quest
17
   Diagnostics. I forgot the rank. And when I met with
18 them, I would do a sanity check and asked "What can you
   tell me about costs? What assumptions should I make?"
19
20
    So I had a conversation with those.
21
          So I was just kind of soaking that
22
    information from everywhere. But I didn't have enough,
    like I mentioned earlier, to be able to pinpoint with
24
    accuracy.
25
          BY MR. KOLHATKAR:
0620
1
      Q
          Why doesn't this model include costs of
2
   revenue for 2013?
3
          Why doesn't it?
      A
4
      O
           Right.
5
          That's because, like I said, the $25 million
6
   is the -- the innovation payment made by -- made by
   Walgreens. And it may have been also an oversight.
   Like I said, you know, it was early enough that it was
   not accurate, obviously.
10
           And it's your understanding that you made it
   clear to PFM that this was not accurate?
11
12
       A If I made it more than clear that this is a
13 model. I actually asked them, "If you see errors in
14 this one, please let me know. And if you have" -- "you
15 have so much insight" -- which is what they were trying
16 to tell us during that time frame, that November,
17
    December, that they know the healthcare industry really
18
   well -- "please tell me. And I'm looking forward to
19
    your feedback." Absolutely.
20
          And again, you think that's -- that was in a
    conversation with (b)(6); (b)(7)(C)
21
22
23
          Those guys, for sure. Those guys -- and they
    actually had another third, a junior numbers guy. I
25
    forgot his name, but he used to be in the meeting
0621
1
   also -- in one meeting, but I don't remember even his
   face, unfortunately. But (b)(6); was also a numbers
2
   guy, so, you know, he could understand numbers. And
   Brian certainly was a numbers guy.
5
          Can you walk me through these operating
6
       expenses and how you created these assumptions.
          Yeah. I mean, one is the -- there's the
   killer software right there (indicating). Research and
```

development, including killer software and apps and 10 support. I had ballparked what percentage of revenue 11 we would want to spend on R&D. 12 CLIA lab operations, I think I started out 13 with some information that I got from the CLIA lab. 14 And, actually, to go back to your question, the retail 15 pharmacy cost, why did I not include the cost of 16 revenue for pharmacies, some of this was included here, 17 the CLIA cost. 18 Then we had the data center. Again, I had 19 made assumptions of the percentage of revenue I think 20 we were spending on data center. Same thing with sales 21 and marketing and G&A. 22 So, again, there was additional cells in this 23 spreadsheet, probably, or I had hardcoded the formula. Again, if I see the formula, I would be able to tell 25 that I had assumed certain percentages we'll be send 0622 1 spending on these categories. 2 Q I guess, do these expenses include the 3 per-patient fee Theranos was paying to Walgreens? 4 A Well, in the -- 2013, the answer is: No, 5 because we don't see the cost of revenue for retail pharmacy here. But after 2014, my calculation was that 7 that was included in the cost of revenue there. 8 O So, I guess, what -- what is the cost of revenue figure in 2014? What does that include for --10 for retail pharmacy? Well, it was -- again, it was -- there is no 11

12 further, you know, breakdown of this on the spreadsheet 13 because I was, at that time, bucketing everything

14 pretty broadly. But anything that is not included in

15 the operating expenses, including sales and marketing,

16 data center, IT, CLIA lab, R&D, including the software

17 costs, because software was a pretty significant cost,

18 I was not including in the cost of revenue, this would

19 be, you know, mostly variable costs associated with a

20 requisition. So reagents, and money that we were going

to give to Walgreens, and probably something other --

22 some other costs here. Probably phlebotomists was

included here. So directly variable costs for the

24 sample collections.

25 But again, I don't remember the assumptions. 0623

1 If I see the numbers in front of me, I would probably be able to give it better. 2

3 If you turn to the next page, there's a -- it 4 says, "Pro Forma Quarterly Statement of Cash Flow." 5 Do you see that?

6 A Yes.

9

7 And the numbers here aren't provided quarterly, right, it's just annualized?

It's annualized. Correct.

10 What is "Services NBL by Walgreens" mean?

11 Internally, we were calling the innovation 12 payment as a licensing fee. I don't know why we came 13 up with that -- with that name, but we were just --14 initially, we used to refer to it as network bundling 15 licensing fee. 16 The thought was: We are bringing the 17 insurance companies, we are bringing software, we are 18 bringing a lot of value added network, and in exchange 19 for that, we are getting this innovation payment. And 20 we used to called it network bundling licensing fee. I actually don't remember where this name came from. And 22 if you ask me, "Tell me how did that makes sense," I 23 would not be able to do. 24 But it was just kind of a name that we used 25 for all of the services we were providing as innovation 0624 services. 1 2 When you say it was a name "we" used, who is 3 the "we"? 4 A At the board level, we used that name, so 5 some board members early on in 2010 used it. 2011, 6 Elizabeth and myself. 7 Q It's your understanding that she would understand what network bundling licensing fee would --9 would -- would mean? 10 A You know, I'm closer to this model, and if I 11 don't recall, if she does, that's awesome, but I 12 wouldn't be surprised if she doesn't either. 13 I, guess what was the -- and how would there 14 be a -- an NBL fee by Safeway and other retailers? 15 A Yeah. So the -- our Safeway contract 16 included rights that we give to Safeway. Safeway 17 wanted to be the, for the lack of a better -- what I 18 will say a middle man. The right word will come to me, a middle man for providing our services into all grocery stores across the nation and probably including 21 Canada. And they wanted -- because they had a smaller 22 footprint than Walgreens, they wanted to have as many 23 locations as part of Safeway as Walgreens, like 2,000, 24 3,000, something like that, but they didn't have that 25 many stores. 0625 So (b)(6); (b)(7)(C) 1 said, "If you give us the rights to make 10 percent off of the revenue" -- or 15 percent, I forgot the number, "we will go with you because we know the grocery network, and if they sign deals with you, you'll get an up-front innovation fee from them, and then we will take over 7 all of the operational details to help you scale," 8 Safeway Corporation will. "And we will make sure the branding is 9 good" -- and his model was Starbucks. He said, "You 11 know, just like Starbucks gives them," I guess, "the 12 way" -- "the rights to manage the brand in their

13 stores," he said -- only in Safeway stores -- he 14 said -- their point was: They would take all off -- all 15 of the responsibility off of our shoulders so we don't 16 have to hire people who are maintaining a quality of service that they would have people going around making 18 sure the services are good, the people are leaving 19 happy, the stores are clean. In exchange for that, 20 they will make money. 21 And so that was kind of what -- what the 22 model was. Q Okay. And is that how you -- was that 23 24 explanation just so you provided the -- what will 25 represent the \$25 million to Theranos in 2014? 0626 1 A That's my guess yes. 2 What are the adjustments to the prepayment of Q 3 revenue? A Yes. We had -- we had a contract with, I 5 think, Blue Cross Blue Shield of Massachusetts that we were going to launch in Massachusetts first, or we were 7 going to try. I don't think it was contractually binding. And when we launched in Arizona, they were unhappy about it. And so that's my recollection. 10 So in 2013, we modified our contract with 11 them. We returned them this 18,500,000, and we said, 12 "Okay. We will come back to you at some point when we 13 are ready to come to Massachusetts." But that's what it 14 is. 15 And what about the equity transactions in 16 2013, what -- what equity transactions do you recall 17 taking place in that time frame? You know, I don't remember exactly whether 18 19 they were early in 2013 or later. I would have to -- I 20 would need more details for that, but I don't recall 21 right now. 22 O Where would you get that number? I would probably ask (b)(6); how much we have 23 24 raised or I would approximate how much we are planning 25 on raising in 2013 and include here. 0627 BY MS. CHAN: 1 2 Q So the lines of production line that you see 3 under "Capital Expenditures" --4 Α Yes. 5 Q -- where are the assumptions that go into that line? 7 I don't remember the formula behind it, but I may have looked at the number of labs we were opening and the cost of new labs, or some of that parameter. I 10 don't remember the formula or the assumptions behind 11 it, but I'll have to look at -- look at the formula and 12 the notes to be able to say where the assumptions came 13 from. 14 Q And you said that this line would have

- 15 included, you know, any costs or expenditures
- 16 associated with maintaining the commercially available
- 17 machines or purchasing commercially available machines;
- 18 is that --
- 19 A I would say purchasing.
- 20 Q Okay.
- 21 A So any machines that we would buy from
- 22 outside, whether it's for R&D, we bought a lot of
- 23 equipment for R&D, a lot of expensive machines, would
- 24 be included here. And for the CLIA lab and other big
- 25 machines that we needed. The automation line of 0628
- 1 course, yes.

17

- Q So did you have any idea at this time as to how many of those commercially available machines you would need in your lab going forward to 2014 and 2015?
- A Yeah. I had done an estimation with -- with my supply chain director and also a few people in the lab to see what is the throughput that we'll be able to accommodate on different platforms. And so I had ballpark figures that ultimately got better and better and better.

But I had ballpark numbers that showed us, you know, we can process 6,000 samples per day on a certain set of machines. You know, let's assume two-thirds of them or one-third are venipuncture or whatever the assumption was. We had enough data to be able to calculate the throughput.

And then either I think in 2013 or 2014, we

had also reached out to Siemens who was one of the vendors that we did work with, and we bought a lot of machines from them and asked them to tell us how to optimize things so we can do more and more samples. And we made a commitment to them to buy these automations lines. You know, they're literally like lines of production that go on a conveyor belt, and giant robots pick up the samples, put them in the 0629

1 machine. No human has to touch them. Robots can also
2 pick up the sample and store them for later use. Fully
3 automation -- automated.

And that would have included our throughput significantly because no humans were needed and also reduced our labor costs. And they actually had provided us some guidance on that.

- 8 Q What was your understanding as to how much an 9 Advia 1800 would cost?
- 10 A I think it was about 120,000, \$150,000, but 11 I'm ballparking it.
- 12 Q And that was the cost back in the 2013, 2014 13 time period?
- 14 A Yeah. I mean, the cost of that hasn't really 15 changed that much. So I would -- and these machines
- 16 are -- lab machines don't change for, like, decades.

```
So I think my memory is: It was around 120 or 200
18 tops. But in that range.
19
          BY MR. KOLHATKAR:
20
          So I want to turn to the next page --
21
          BY MR. FOLEY:
22
       Q Before we move on. So the 75-million-dollar
23
    Walgreens NBL fee --
24
       A
           Yes.
       Q
25
           -- is that in the same nature as the 25
0630
1
   million that is shown in 2013 on the prior page?
      A It's part of the same hundred million
3
   dollars. Correct.
4
         So why isn't this -- why isn't the -- that
5 the cash came in, as reflected on this Pro Forma
   Quarterly Statement of Cash Flow in 2013, why isn't it
   being shown as income?
7
8
          Yeah. I think there was an omission that it
   should have been included either in 2013 or 2014, and I
   didn't include it either -- on either places. So these
11 numbers (indicating), technically speaking, should have
   been higher or this should have been somewhere else.
13 So that was -- that was an error.
14
          BY MR. KOLHATKAR:
15
         And just for clarity of the record, when
16 you're saying "these numbers should be higher" --
           Sorry.
17
       Α
18
       O
          -- you're pointing to --
19
       A Yes.
20
       O -- the statement of income figures for 2013
21
   or 2014?
22
       A Yes. So I'm pointing to the lab services
   from U.S. retail pharmacies revenue. If you were to
   assume $75 million innovation payment is coming in
25 2014, then it would add to the $109 million. Because
0631
1 the $109 million is coming from the formulas that we
   saw earlier on Page Number 2 and Page Number 1. So if
   you add the $75 million, the revenue number should be
4
   higher here.
5
         BY MR. FOLEY:
      Q And then on the pages titled "Projected
6
7
   Statement of Income," which is the prior -- just the
8
   prior page --
9
      A Yes.
10
          -- who came up with the title "Projected
11
   Statement of Income"?
12
       A I think I cut and pasted it from somewhere.
13 But I put the title. I added that.
14
          BY MR. KOLHATKAR:
15
       Q I want to turn to the last page on this -- on
    Exhibit 251, which is entitled "Consolidated Balance
16
17
    Sheets."
18
          Do you see that?
```

19 A I do. 20 Where did you get the information for the top 21 half of this page here? 22 Usually, balance sheet information used to 23 come from (b)(6); (b)(7)(C) and she used to pull it from QAD 24 directly. And I used to just cut and paste and drop it 25 here. 0632 1 Q And earlier, we had a discussion about some of the descriptions of assumptions that you -- that you had provided, and you mentioned that there were some notes in the -- in the -- in the model. 5 Are those notes reflected at the bottom of 6 the page here? 7 A Yes. These are the notes that I had typed in to capture some of the other soft, quote/unquote, 9 assets. 10 Q Okay. So it says -- under the note, it says, 11 "Please note that the following intangible assets are 12 not included in the balance sheet above. These assets 13 have been valued at multibillion-dollar valuation in 14 the past." 15 A Yes. 16 O Do you see that? 17 A Uh-huh. 18 Q Did you write that? 19 Sorry. Yes, I did. 20 Who valued these intangible assets at 21 multibillions of dollars? 22 A Yeah. We -- we had done a round in 2011 when 23 we had -- or 2012. I forgot the exact time frame. We 24 had raised some money where we had very little revenue, 25 I think close to zero, if not zero. And our company 0633 1 was valued at, I think, 6 billion or 7 billion. I forgot the last -- exact number. And that's what I was referring to, is that it is because of these 3 innovations that our company was valued at that number. 5 Q Did you ever explain to any investors that this note about a multibillion valuation referred to, I 6 7 guess, the C-1 round? 8 A Yes. They used to -- well, not actually the entire C-1 round, but the fact that somebody had 10 valued -- investors had valued the company. And yes, I 11 had that discussion with several investors. 12 Do you recall any -- any specific ones? 13 PFM, because I had long discussions with them 14 around the model in general. And I don't remember who 15 else talked to me about it, but people would sometimes 16 ask me, "Tell me a little bit more." Or actually, sometimes I would actually take the investor here to 17 point out, and say, "Oh, by the way, here are some 19 notes for your consumption." 20 The balance sheet also includes \$183 million,

```
it looks like, for deferred revenue --
22
       A I see that.
23
          -- at the time.
24
          What did that represent?
25
       A I don't know that. I don't recall. I mean,
0634
1
   I would have to see the details behind that.
2
         BY MS. CHAN:
3
      Q What was your understanding of -- of deferred
4 revenue?
5
      A This may have included the -- the $75 million
   or a hundred million from Walgreens because we hadn't
   gotten paid -- this number paid yet. And it may have
   also included revenue from the payment from Safeway.
   But I'm not so sure if that was included here or not,
10 so I don't know exactly what was included here.
          What is your understanding of what deferred
11
12 revenue means or when something should be booked in the
13 financial statement under deferred revenue?
14
          MR. COOPERSMITH: Are you asking at the time
15 or as he sits here?
16
          BY MS. CHAN:
17
       Q At the time.
       A I didn't have a good understanding of that
18
19 then and -- or now. Usually, these came from \binom{[b](6)}{[b](7)(C)}
20 this balance sheet, so I tried not to touch it much.
21
       Q Did she ever ask you what she should be
22 booking under deferred revenue or how to account for
23 the certain innovation fees or prepurchase payments
24 from Walgreens or Safeway?
25
         She wouldn't ask me, but sometimes she would
0635
   come and discuss that, and I would say, "Talk to the
1
   accountants" and -- or "We will," you know, "put it
   here, put a note somewhere so that we can talk to the
   accountants about it." But it was not like she was
   asking my direction because she was a CPA, so she's --
5
   she's not going to ask my direction on this.
7
      Q I want to hand you another document that's
8
   been --
9
      A Do I put this away?
       Q You know, it might be helpful to have it out.
10
11
       A Okay.
12
       Q I'll hand you another document that's been
13 marked as Exhibit 195.
14
          THE WITNESS: Yes, I see it.
15
          BY MR. KOLHATKAR:
16
       Q Do you recognize Exhibit 195?
       A I do.
17
18
       0
          What is it?
           This is an e-mail conversation between
19
20 myself, Elizabeth Holmes, and three or four people from
    the consulting firm that we were working with called --
22 I think called BDT.
```

- 23 And is this taking place in October of 2014? 24 A Yes, it is. October 13 is one of the 25 e-mails. 0636 Q And it looks like you're providing an 1 attachment entitled "Theranos U.S. 2014/2015-Oct 2 3 14.XLSX"? 4 A Yes, correct. 5 So were you attaching your current version of
  - the financial model for them?
- 7 A Yes, it seems like it.
  8 Q Okay. So I want to turn to the -- the

9 attachment which is the model printed in -- it looks 10 like on the fourth page there.

Do you see that, the model that begins with "device costs" at the top left? It looks like you're on the right page.

A Yes, I do.

15 Q It looks like the -- the device costs lines 16 have expanded from the PFM model.

17 A Yes.

14

14

18 Q I guess, how -- how did you -- why did you 19 decide to extend out the -- the time period for device 20 costs assumptions?

A Sure. Like I mentioned earlier, the model at the end of 2013 was still fairly raw, and I was still learning and making a lot of assumptions, and over time, I continued to add more and more information.

25 So this would be an effort to add more 0637

1 assumptions that over time, our price will increase as 2 the volume increases. All the reasons that I gave you 3 earlier. And components get cheaper, the labor gets 4 better, assembly gets faster. So I was making 5 assumptions here that over time, our device costs will 6 go down.

And I think we were also getting better data from our manufacturing, and that was feeding into these ssumptions.

10 Q And is it fair to say that from the time of, 11 you know, PFM getting its model in late 2013 or early 12 2014 till October 2014, Theranos had a lot more 13 information from its retail rollout?

A Had -- comparatively speaking, yes.

15 Q And did you endeavor and include that updated 16 information in this model as of October of 2014?

A I tried as much. I was not spending too much time on the model, not always. So I -- whenever I got time, I would go back and try to update the model. But I wouldn't say necessarily that it was realtime information, as it came in, I updated it every day or every week.

23 Q I guess, what changed the device costs 24 assumption lower in this version compared to the prior?

25 Sure. I think in 2014, I had started working 0638 1 with (b)(6); (b)(7)(C) and a few other people in the -what we used to call the math team. These were all quants, mathematicians, and machine learning, and AI people, data analysis people. And we had pulled a lot 5 of data from our actual manufacturing, and -- and we were getting greater confidence what the -- the numbers would be. So this reflects that information -- that 8 change. 9 What about depreciation -- the depreciation 10 years there? It looks like it's changed from ten years for PP&E to -- to 15 years and -- and four years for 12 the devices to three years. Yeah. The depreciation of PP&E, again, you 13 14 know, I don't know if I got the number from  $\binom{[0)(6)}{[n/7](c)}$  or 15 not, but I made an assumption there for the sake of the 16 model because, you know, whatever the right number would be, we can just plug it in and it will reflect 17 18 through the model. 19 And the depreciation of the devise is an 20 assumption that I had made that as we grow, we wanted to be obsoleting ourselves. So the device 22 depreciation, we always wanted to -- I wanted to assume 23 that we were more aggressively replacing our own 24 devices, so I had reduced that to three. If you turn to the next page of the document, 25 0639 1 it looks like there's some updated numbers in terms of pharmaceutical locations. 3 Do you see that? 4 A Yes. 5 And by October of 2014, Theranos had opened 6 41 Walgreens locations? 7 A That's correct. 8 Did you have any expectation in October of 9 2014 to open an additional 159 by November of 2014? 10 Α No, I did not. Why does the model reflect growth to 200 11 12 stores in the next month? 13 Sure. When I had started working on this 14 model with these consults, we just plugged in the 15 numbers to verify the overall model works according to 16 our assumptions, so there were no bugs in the formulas, 17 no changes anywhere. So it was more of, you know, picking some numbers and -- and sticking them in the 19 model, not necessarily, you know, what we were doing 20 next month. 21 Q Do you know if similar numbers were shared 22 with potential investors around the same time frame? 23 A I don't recall. 24 Would it have been accurate to provide 25 similar numbers to potential investors around the same

```
time frame?
1
2
      A It will be a model, so, yeah. I mean, it's
3
   not about accuracy and inaccuracy, as long as the
   explanation is there that this is a model. One could
5
   plug in any numbers and make assumptions. Like I said
   earlier, in some cases, you can just say, "Well, what
7
   happens if you are delayed by six months?"
8
          Well, change the October 2014 to April 2015,
9
   and the stuff -- then it just shifts out.
10
       Q How did Theranos provide this model to
11
   potential investors? Did it always provide the Excel
12
    spreadsheet?
13
       A Not always. I -- like I said, in meetings, I
14 used to project this on the screen, and I would walk
    people through this. In some cases, people would say,
    "Yeah, you know, this is interesting. I would like to
    play with it," and I would give them either an e-mail
17
18 when I could. Sometimes the e-mail would bounce back
19 because size of the file was large. And sometimes I
20 would put this on a USB key.
21
          In some cases, people would say, "I don't
22
    care about these details. Just give me a couple of
23
    pages for my reference."
24
          And I would say, "Which pages?"
25
          And they'll tell me which pages, and I would
0641
1
   print it and hand it to them.
2
      O Do you recall any investors saying that they
3
   didn't care and just wanted a few specific pages?
4
          Yeah. Most investors didn't ask for it,
5
   so --
6
          I guess my question is: Do you recall any
   investors asking for specific pages for -- from this
   model?
9
      A I don't recall explicitly. Actually, I take
10 that back. I think (b)(6); (b)(7)(C)
                                   had asked because he
    said -- I said, "I will send you the soft copy."
11
12
          And he said, "I'm not the kind of guy who
13 reads e-mails. Somebody prints them out for me. So
   just give me a couple of pages from that."
15
          So I think I had printed it for him and
16
    either gave it to him there or sent it to him somehow.
17
    But that's my recollection.
18
          But there may have been others. I just don't
19 remember. I just remember it because it was funny that
20 he doesn't read his own e-mails.
21
          BY MS. CHAN:
           So in the case of (b)(6); (b)(7)(C)
22
                                          then, did you
    change the Walgreens assumptions so that they were more
24 closely consistent with your understanding of when
25 Theranos services would be rolled out in Walgreens
0642
1
   stores?
      A No. I didn't -- I was not modifying the
```

model to give to (b)(6); (b)(7)(C) He basically said, "Just take a snapshot of what you have and give it to me when you're ready." So it was not that I modified anything. It was to give him how we were thinking about the business, what business line items we were thinking 8 about, the pharmacy and the doctors' offices and -- he was more focused on those categories. 10 So, no, I didn't modify anything. I just 11 printed what he asked me to print and gave it to him. 12 So you don't think that (b)(6); (b)(7)(C) 13 interested in knowing about how your revenues would 14 be -- be projected in future years? 15 A My understanding from (b)(6); (b)(7)(C) is that he 16 saw the model, but his interest was more, I mean, the majority of our conversations with him was around the 18 vision of what we will be doing for 10 to 20 years. So 19 he displayed, I would say, less interest or I think, in 20 honesty, it may have been close to zero interest in 21 what we were doing in the next six months, or twelve 22 months, or eighteen months. 23 So he -- he was not focused on that. Most of 24 our investors that we met with in C-1 and C-2, our 25 conversations were around five to ten years, and with 0643 our conversation actually was mostly 1 2 around "I don't want to sell my stock." And so -because in our charter, we were talking about, you know, how we buy back the investors and how to structure the company. Yeah, we spent a lot of time on how Elizabeth was thinking about structuring the 7 company. 8 And (b)(6); (b)(7)(C) said -- yeah, I mean, he was 9 giving us hints on how to structure the company and --10 because he has, you know, his kids are also involved in 11 the business, so a lot of our conversations were around 12 10, 15 years and beyond. 13 BY MR. KOLHATKAR: 14 Do you remember when this meeting with  $\binom{(b)(6)}{(b)(7)(C)}$ took place? 15 16 A I think it was winter of 2014, I would 17 believe. Yes, winter of 2014. I don't remember if it 18 was December or January, but it was that time frame. 19 O So late 2014, early 2015? 20 Yes. A 21 Did (b)(6); (b)(7)(C) or any of his representatives 22 ask how confident you were in Theranos's 2015 23 projections? 24 A I don't recall that. But I didn't present 25 these as projections to begin with, so I think I would 0644 1 have probably corrected him that this is a model. 2 Q So -- just so I'm clear on your answer, your 3 answer is: You don't recall him asking that question? Yes. But what I'm saying is: Had anybody

said "projections," I would have corrected them because that's kind of a habit I have. And it's a habit you think you had back then 7 Q 8 as well? 9 A For a long time. Q Did you tell (b)(6); (b)(7)(C) 10 or his 11 representatives that you thought that the projections 12 were within a 30-percent -- that you had confidence 13 that the 2015 projections would be met within a 14 30-percent, plus or minus, range? 15 I don't recall that. It doesn't sound like 16 something I would have said. I may have been talking about something else, but it doesn't sound like 17 18 something I would say. 19 Q Do you recall saying that? 20 A No, I don't. 21 BY MS. CHAN: 22 Even if potential investors weren't -- you believe that they weren't so interested in, you know, how the revenue was going to be in the few years and a 25 little more interested in other things in your model, 0645 1 why wouldn't you want to show them an accurate picture of -- of what you're displaying here? Why wouldn't you want to show them that, you know, Walgreens -- Theranos is likely not going to be rolling out in Walgreens in 5 the next few months? MR. COOPERSMITH: Objection. Because it 6 7 assumes things in the question. 8 But please answer. 9 THE WITNESS: Yeah. I think the answer is a similar one. Our conversations with the investors were long term. If somebody had wanted the model -- I obviously I had offered the model to every -- every 13 investor and I gave it to several. But I didn't want 14 to spend my time updating the model if it was not 15 required, and especially if they could have modeled it 16 themselves. So that was the reason. 17 BY MS. WINKLER: 18 But how could they have modeled it themselves 19 if they didn't know how many stores were going to be 20 opened at the end of the year? 21 No, I could have given them the -- if I had 22 given them the USB key which I offered, they would have 23 easily modeled it. 24 Right. But if they didn't have the accurate 25 information, the true knowledge of what the state of 0646 affairs was, how could they have done a model that 1 2 projected out in the future? 3 A Yes. The reason is: A lot of the conversations we were having, we were talking about the 5 changes -- the risks to the rollout schedule. If somebody were to ask me what happens, the answer that I

gave earlier today and yesterday was: I would say, "You know, if we miss a deadline, our expectation is: 9 Things may slow down, and in that case, things will get 10 pushed out by three or four months, and you can just go to the top and make that change here. But our assumption is that once you pick up a certain pace that 13 both companies were deeply committed to rolling this 14 thing out." 15 Q But you're not answering the question. The 16 question is: How, for example, could they have made 17 their own accurate model if they didn't know that by the end of 2014, 200 stores weren't going to be opened? 19 A I think they could have -- they would have 20 come back and asked me. Did anybody come back and ask you that? 21 O 22 I don't recall anybody did. 23 Did you ever tell anybody that? 0 24 A Tell what? 25 O That there weren't going to be 200 Walgreens 0647 1 locations opened at --2 Yeah. When we were -- even with PFM --3 Q Let me finish my question. 4 A Sorry. 5 That there weren't going to be 200 Walgreens 6 locations opened at the end of 2014? 7 Α Yes. 8 O Who? 9 Anytime when I was engaging with -- I don't specifically remember who, but when I would point out the model, I would say, "Of course, we are just months 12 away from this, so we are not opening 100 locations in 13 a month right now. But this is a model and you can 14 modify it" --15 0 So who did you tell that to? 16 Like I said, I don't recall specifically who, 17 but if somebody asked me a specific question, like "Are 18 you" -- "So you'll be at 400 locations this month," I 19 would say, "That's an assumption on the model. Of 20 course we only have three locations right" --21 Q You're telling me what you would say. I'm 22 asking you who did you say that to. 23 A I don't recall any specific person that I 24 said that to. 25 BY MR. KOLHATKAR: 0648 1 Q If you flip forward a couple of pages in Exhibit 195 to the Projected Statement of Income. 3 4 A Sorry. 5 Q Flip forward in Exhibit 195 --6 A Yes. 7 -- to the Projected Statement of Income.

Do you see the Projected Statement of Income

```
9 there?
10
       Α
           Yes.
11
       Q
           Do you see the EBITDA number that is
12 projected for 2014?
13
       A
          I do.
14
       O
          And it looks -1.2 million?
15
       A
          Yes.
16
          In other words, is -- this is predicting
17 that -- this model would predict Theranos would break
   even as of the end of 2014. Is that what this
19 reflects?
20
       A
          Assuming we hit those assumptions, yes.
21
           In October of 2014, do you think Theranos was
22 going to break even that year?
23
       A No. This was -- actually, you're looking at
24 a model that I was working with with BDT. So no, I
   didn't -- I didn't think so.
0649
      Q Okay. Did you think Theranos was going to
1
2
   break even in 2014 as of October 2014?
3
      A I don't remember in this moment. I would
   have probably looked at the model and tried to figure
   out if the answer is yes or no.
      Q I guess, did you have any expectation in the
6
7
   fall of 2014 that Theranos was on track to break even?
      A It depended -- it depended on how we would
   have recognized the $75 million, a hundred million
   dollars revenue. But if you exclude that for a minute,
10
11
   the answer is no.
12
          MR. COOPERSMITH: Would this be a good time
13 for a break?
14
          MR. KOLHATKAR: I think I'm done with this
15
   document. Let me just -- give me two seconds.
          MR. COOPERSMITH: Of course.
16
17
          BY MR. KOLHATKAR:
18
       Q Do you know if Exhibit 195 was shared with
19
   other investors?
           This specific one?
20
       A
21
       Q Correct.
22
       A I don't -- I don't remember. If -- there
23 would be a log for that if it was.
24
       Q Do you recall sharing this Exhibit 195 with
25 investors around this time frame?
0650
1
      A I would share a model with the investors, but
   I don't know if it was exactly this one or not.
3
         BY MS. CHAN:
4
      Q You just said there is a log if you had
   shared it with investors. There was a log --
6
      A Yeah. I mean, in the e-mail, if I gave it to
7
   somebody, if I presented it, I would saved the file
   under that name or it would be on the 300 folder. So I
   would, like I said, I usually used to tag it and say
10 "Showed to so-and-so," or "Used on this date." But
```

11 that's what -- sorry, that's what I meant. 12 O Have ever recorded it in the file name on 13 your 300 folder? 14 A In some cases, I did, yes. 15 Q Okay. What about other cases, are you saying 16 that you just sometimes did and sometimes didn't? 17 I think I did it reasonably regularly unless 18 I was meeting with somebody -- multiple people within a 19 week or two weeks, then chances are, if I didn't make 20 any modifications, then I would say, "Model as of 21 February 3rd," or "February 2nd," or "February 20th." 22 And then -- but I would not name it by "Four meetings 23 that I had and presented the model." 24 MR. KOLHATKAR: Why don't we take a break. 25 We'll go off the record at 3:09 p.m. 0651 THE VIDEOGRAPHER: Off the record. 1 2 (A brief recess was taken.) 3 MR. KOLHATKAR: Back on the record at 3:23 4 p.m. 5 BY MR. KOLHATKAR: 6 Q Mr. Balwani, just to confirm, you didn't have any substantive conversations with the staff during the break; is that correct? 9 That's correct. 10 You can put those exhibits aside. Thank you. 11 (SEC Exhibit No. 252 was 12 marked for identification.) 13 BY MR. KOLHATKAR: 14 Q I'm going to hand you a document I'll mark as 15 Exhibit 252. For the record, Exhibit 252 is a 16 multipage document Bates stamped SEC-ARANCA-E-0000059 17 through 69. 18 Mr. Balwani, I'm not going to ask you to read 19 the whole thing, but do you recognize Exhibit 252? 20 A I do. 21 Q What is it? 22 A It seems like an engagement letter from Aranca to address to Ms. Holmes for some services. That's what it looks like it. 25 And if you turn to the page ending in 68. 0652 1 A Yes. 2 Q Do you see your signature there? 3 Yes, I do. 4 O Were you signing this agreement on behalf of 5 Theranos? 6 A Yes. 7 O Is the date of the signature October 17, 8 2014? 9 A Yes, it is. 10 Q What is Aranca? 11 My understanding is it's a firm, I think 12 multiple services. But the two I'm familiar with is

- 13 they do -- they provide 409A evaluations to the
- 14 companies for stock option issuance purposes and they
- 15 also provide consulting services to companies in
- 16 different industries, and including healthcare, is my understanding.
- 18 Q If you turn to the, I guess, the page after
- 19 the signature page, there's an Exhibit A. It says,
- 20 "Purpose intended use of this appraisal." Do you see
- 21 where it says, "The termination of exercise price for
- 22 granting common stock options to employees in
- 23 compliance with" -- is that IRC Section 409A? Do you
- 24 see that, under the "purpose and intended use of
- 25 appraisal"?
- 0653
- 1 A On the last page?
- 2 Q On the page ending in 69.
- 3 A Yes, I do. I do.
  - Q And it says, "The termination of exercise
- 5 price of grant a common stock options to employees in
- 6 compliance with IRC Section 409A."
- 7 A Yes.
- 8 Q And the next bullet point says, "As an input
- 9 for evaluations to determine the fair value of options
- 10 pursuant to SFAS123R for financial reporting purposes."
- 11 A I see that.
- 12 Q Did you understand that to be the purpose of
- 13 this appraisal?
- 14 A That's what is written here. And what the
- 15 company was using this for was not for this purpose at
- 16 this time in 2014.
- 17 Q What purpose was that?
- 18 A Yeah. In -- towards the end of 2013, we had
- 19 decided that, as a company, and we had several
- 20 discussions at the board that we wanted to come up with
- 21 our own evaluation of how to value our stock within the
- 22 company. And as part of that, one of the things I had
- 23 asked -- the board had asked me to do was to work with
- 24 Aranca to see what methodology they use to value our
- 25 company based on certain inputs. So how does -- how do 0654
- 1 they value what IP and patents or contracts, and also
- 2 some, you know, software factors, cash position and
- 3 equity rounds.
- 4 Q Did you ever tell Aranca that you wanted to
- 5 work for them for that purpose?
- 6 A No, I did not.
- 7 Q Why not?
- 8 A Because I wanted them to explain to me how
- 9 they were using the methodology to value a stock
- 10 options so I could learn from them.
- 11 Q I still don't understand why wouldn't you
- 12 just tell them that's what you wanted to learn from
- 13 them.
- 14 A I didn't think it was important to tell them

15 what was the purpose of it. We were signing them for 16 some services that they were providing. My intent was 17 that I will give them different inputs, and based on 18 that, how to value the stock options. 19 Who was responsible for giving Aranca inputs? 20 So between -- through 2013, the primary 21 interface with them was (b)(6), (b)(7)(C) And even after that, she was the primary interface. But I started interfacing with Aranca a little bit more 24 in 2012 than 2013 and 2014. 25 Did you ever tell (b)(6); (b)(7)(C) you were using 0655 Aranca for this other purposes? 1 2 I don't think so. 3 O Why not? 4 A Again, it was unnecessary. 5 If you take a look at the obligation for the 6 client page, SEC-ARANCA-80 ending in 60. 7 Α Yes. 8 Do you see the third paragraph there under Section 3, "Client and its representative weren't 10 represent in covenant to Aranca that the information provided by client is complete and accurate to the best 12 of the client's knowledge and that all financial 13 statement information reflects accurately 14 client's results of operations and financial and business condition in accordance with generally 16 acceptable accounting principals unless otherwise noted." 17 18 Do you see that? 19 A Yes. 20 Were you agreeing to provide Aranca accurate 21 information about the company's financials? 22 For a given purpose, yes. 23 And do you believe you provide -- and given 24 purpose that Aranca understood was this 409A valuation? 25 Correct. But that was not our intent 0656 behind -- going through this exercise. 1 Q Did you provide Aranca with accurate 2 information of its -- accurate information concerning 4 the company's results of operations, financial and 5 business condition? 6 We provided Aranca with a certain set of projections making some assumptions. That we are not using their valuation for our 409A purposes. With that in mind, I would say, yes, with the intent clear, we provided them clear accurate information. 11 What intent clear? 12 That the purpose of using Aranca reports 13 would be not to value stock options, but the value of stock options given a certain set of assumptions. My 15 plan was to modulate those assumptions to say how do

16 they value the stock options if the assumptions change

- from X to Y. And I was going to give them a different 18 set of assumptions.
- 19 Q I guess why did you need Aranca to produce 20 409A report for that purpose?
- 21 Well, the purpose was not necessarily 409A
- 22 report. The purpose was, like I said, to understand
- the methodology in the process of them producing 409A
- 24 reports so that I can understand how they value our
- 25 softer skills, softer assets, which I didn't understand 0657
- at that time. And Aranca had spent quite a bit of time 1
- with the company by then, so that they had the
- understanding of the company and the -- our IP and
- other things that we had done in the past and the
- industry, from when I talked to them, that I thought I
- would be able to learn something from them.
- Who at Aranca were your primary points of 7 8 contact?
- 9 A I don't think there was one person. I had
- 10 spoken to Aranca on the phone two or three times.
- There was couple of times the gentleman was based in
- 12 India. Almost all their team was based in India. And
- 13 so I spoke with some gentleman over there. And then I
- 14 think I spoke with, once or twice, with their
- 15 representative here in the U.S. also, but I don't
- 16 remember the names.
- 17 Q Who on the board asked you to do this with
- 18 Aranca?
- 19 Α The entire board was -- we had a long
- 20 discussion around this, and most of the board members
- 21 discussed that and that we -- it was assigned to me to
- 22 go and do this exercise.
- 23 Did you ever carry it out? Did you ever use
- 24 the Aranca report to help build some sort of value to
- 25 understand its valuation model?
- 0658
- 1 A No. I never got the time. I spent a little
- bit of time with them to get the information, but I was
- not satisfied with information I was getting. It
- wasn't all that much money at that point so it kind of
- fell lower on my radar, lower priority. So I didn't
- use -- to answer your question correctly, no, I did not
- use that information for anything. 7
- Did anyone on the board express concerns 8 about the way you were proposing to use the Aranca 10 report?
- A This particular report or Aranca reports from 11 12 the past?
- 13 O Any Aranca reports.
- 14 A I don't recall any specific. We had
- discussions at the board level around the use of Aranca 15
- and how, you know, their valuation methodology, but I
- 17 don't think specifically there was any concern. I'm
- 18 not sure -- I don't think I remember.

- 19 Q Why were you doing this exercise in October 20 2014?
- 21 A I think their contract was expiring. This
- 22 was kind of automatic renewal is my guess. I was not
- 23 necessarily reaching out to them for a specific purpose
- 24 at this point. So it must have been an automatic
- 25 renewal that came to my desk and I signed it. 0659

## BY MS. CHAN:

1

- Q Which board meeting do you recall where the board made a decision to go ahead and use the Aranca reports for the internal modeling purposes.
- 5 A So there are two points of clarification. I
- 6 don't think the board said we will use the Aranca
  - reports for evaluation. It was more the methodology we
- 8 learned from Aranca we would apply towards formula we
- 9 would come up with in-house. But there were several
- 0 board meetings, actually. I think pretty much all
- 11 board meetings in 2014 had a discussion on this topic.
- 12 And maybe even in late 2013, but 2014 we had
- 13 discussions on this topic.
- 14 Q So pretty much all the board meetings in
- 15 2014, the board would have discussed learning from
- 6 Aranca how they were valuing the company in order for
- 17 the company to come up with its own internal model?
- 18 A Learning from Aranca and learning from other
- 19 sources, if we could. And that would have included
- 20 talking to other private companies, how they valued
- 21 their internal stock. I had a brief meeting with
- 22 couple of people from Battelle Corporation, where they
- 23 were educating me on how they do it. So we had other
- 24 additional resources. This was not going to be the
- 25 other one. This was the discussion with the board. 0660
- 1 Q Wasn't the company planning to issue stock 2 options at the end of 2014 and 2015?
- 3 A Yes. Our plan was to issue stock options,
- 4 but we didn't have the valuation in place, how to value
- 5 the stock options because we stopped using Aranca. So
- we thought we will be able to come up with the
- evaluation soon. But like I said, my bandwidth was
- 8 limited. I never got a chance to spend on that so we
- 9 didn't issue any stock options.
- 10 Q So even though you were planning to issue 11 stock options at the end of 2014 and 2015, you decided
- 12 not to use the Aranca report for that purpose?
- 13 A Correct.

- 14 Q So what were you planning to do? Or how
- 15 would you do -- who were you planning to retain to put
- together the 409A report, if not Aranca?
   A I'm sorry. Didn't mean to interrupt.
  - One was, I actually tried to retain a firm
- 19 based in U.S. to see if they can help us with this, and
- 20 also learn from them. But that firm had very low

- 21 insurance around confidentiality leaks or
- 22 confidentiality violations in their contract. So we
- 23 got a contract from them and I was going to engage them
- 24 and get the help. Because one of the reasons I was
- 25 worried was the discussions I had had with Aranca, the 0661
- 1 gentleman in India, they were very lax about talking
- 2 about other companies, oh, yeah, we worked with that
- 3 company, we advise them on this and that. I was
- 4 worried about the confidentiality of information from
- 5 Aranca because I felt like they were, like, very casual
- 6 about it. And so I prefer to work with company in the
- 7 U.S. So I tried to retain them, but like I said, that
- 8 didn't pan out.
- 9 The other part of your question was what were 10 we planning on using in-house? Like I said earlier,
- 1 our plan was to come up a formula that the board would
- 12 approve and then we will stick with it. But like I
- 13 said, I personally didn't get a chance to spend time on
- 14 it. And then we were also hoping that I will collect
- 15 enough information that once we have the CFO, this is a
- 16 project for them, this is not a project I was qualified
- 17 for, to take it all the way.
- 18 Q Who was the U.S. company you were thinking 19 about retaining for this?
- 20 A I don't remember the name, but we had some
- 21 correspondence with them, even a contract, that we just
- 22 didn't sign.
- 23 Q Did you discuss with anyone at Theranos the
- 24 fact that you were concerned that Aranca wasn't keeping
- 25 confidentiality?

- 1 A Yes, I talked to the board about it, the
- 2 entire board. And I also talked to Elizabeth Holmes
- 3 about it, that I was -- I had a conversation with them.
- 4 And I hadn't paid any attention to Aranca until 2012 or
- 5 2013 because these guys were in place when I came to
- 6 Theranos.
- 7 And in that conversation, when I was trying
- 8 to understand a little bit more about how they value IP
- 9 and this and that, the person on this other side was
- 10 trying to sell me on consulting services. And I got
- 11 really concerned that -- and I went to the website, did
- 12 some research and I saw they do consulting for a lot of
- 13 life sciences startups. And so I talked to Elizabeth
- 4 and said has anybody looked at how we are protecting
- 15 the IP with these guys. And she hadn't paid attention
- 16 to this either.
- 17 And then the next board meeting I brought up
- 18 to the board's attention that I am seriously concerned
- 19 about this. And especially if we were going to give
- 20 them our contracts with Walgreens, there was a lot of
- 21 confidential information there, that I was not
- 22 comfortable sharing with them. I had a discussion with

- 23 the board about that.
- 24 Q Why did you continue working with them in
- 25 2014 if you didn't trust them?

0663

- 1 A Well, we were not using them for 409A
- 2 evaluations. Like I said, the purpose of working with
- 3 them in 2014, and I think this carried over to 2015 was
- 4 just to learn from them because we had already made
- 5 investment in them. They already knew sufficient about
- 6 the business. It was certainly a good starting point
- 7 to work with somebody you had been working with for a 8 while.
- 9 Q Did Aranca provide you with a copy of their 10 model while they were preparing the 409A reports in 11 previous years?
- 12 A I'm sorry, I didn't understand that question.
- 13 Which model?
- 14 Q Hadn't Aranca provided you with the model
- 15 that they were using to come up with evaluation for the
- 16 company's common stock in prior years?
- 17 A Before 2013, yes.
- 18 Q Okay. So why couldn't you use that model for
- 19 your internal modeling purposes? Why did you have to
  - 0 go through a back door and ask some questions and learn
- 21 that way?
- 22 A We were using that model, actually. So what
- 23 happened was, the model that you are referring to, that
- 24 they were using in 2013, what I did was I increased --
- 25 I added another year to that and increased it by I 0664
- 1 think 5 or 10 percent or 20 percent for the subsequent
- 2 year. And I gave them that model. And I did exactly
- 3 what you just described. Precisely that.

## BY MR. KOLHATKAR:

- 5 Q Theranos -- so in October 2014, you mentioned 6 earlier Theranos was working with BDT as a consultant, 7 right?
- 8 A Yes.

- 9 Q Why didn't you have BDT do this evaluation
- 10 work for you?
- 11 A I didn't believe that was their expertise.
- 12 Q Why not?
- 13 A That's a good question. I mean, I didn't
- 14 know that BDT had that expertise. Perhaps I should
- 15 have asked them, but it didn't even occur to me that
- 16 BDT would be in 409 valuation businesses.
- 17 Q What I understood your testimony to be was 18 that you weren't using Aranca for 409A, right?
- 19 A Correct.
- 20 Q You were using them for a broader company
- 21 valuation?
- 22 A Yes.
- 23 Q Why weren't you using BDT for broader company
- 24 valuation purposes?

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25
           That's a good question, actually.
0665
1 Personally, I didn't think about that. But we actually
2
   did work with BDT on how to structure -- they were
3
   educating us on structured deals in the long run, 10,
4
   15 years down the road when we hit positive cash flow
   coming. How we would use it. But this point that
   you're making, it's a good point. I didn't think about
7
   that. I don't think anybody with the board did either.
8
         Did any investors ever ask to see a copy of
9
   Theranos's 409A reports?
10
           I recall one investor who had asked.
11
       Q
           Which one?
12
       A
           PFM.
13
       0
          Do you know when they asked?
14
           Yes. I believe it was summer or late summer
15
    or early fall 2014.
16
       Q
          So after they invested?
17
       Α
           Yes.
18
       O
           And what information did you provide them?
19
           So initially, I was not thinking about 409A.
20 I think I had a conversation with (b)(6); (b)(7)(C) and I said I
    will send it to you. But then I also explained to him
22
    that we are not using 409 valuation -- first of all, I
    told him, we use 409 valuation to value stock options
    common shares. So actually, let me take a step back.
25
          He had said he needed the 409A evaluation, if
0666
   we could provide it to him, because as auditors, we are
1
   trying to value their investment in Theranos. And I
   said yeah, it shouldn't be a problem, and I'll talk to
4
   and I'll send you 409A. And then later when I
   talked to (b)(7)(c) I remember that, wait a minute, we
5
   had modified the intent of 409A so I called -- I had a
6
7
   conversation with --
8
          Sorry to interrupt. I guess, what about your
9
   conversation with (b)(6); refreshed your recollection on
   that point that (b)(6); didn't know about this
10
11
    modification?
12
       A Because I asked her, do we have the latest
13
    409A evaluation because I didn't remember when was the
    last time we did one. And when I was asking her that
    question, then it popped in my brain that, oh, wait a
    minute, the last evaluation was, I think, December 2013
17
    and things have changed since then. So I had a
        conversation with him and their general counsel,
18
19 (b)(6); (b)(7)(C)
20 (b)(6); (b)(7)(C)
                              And I had a conversation with
    them, I said, look, here's the thing about 409A, we are
    not using it internally, the last time that we used was
    in December 13th. I think I gave her the valuation or
   what the valuation was in 2013, but this one is not
25
   going to be used with you. And so I think we left the
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conversation with that. 2 I don't know what they said. They said they 3 send it to us anyway or not, I don't remember that. But then I -- and I kind of moved on. I moved on to 5 other things. And then later on, I think (b)(6); (b)(7)(C) 6 7 reached out to me saying, hey, can you provide us the 8 409A valuation. I don't know if we met in person or on the phone. I don't remember the details. But I said, 10 hey, what's the purpose. And he goes we just need to give it to the auditors. It's just a checklist, otherwise they may write down our investment. I said, 12 13 well, we are potentially doing an equity round. And 14 that's a transaction that will value our equity at the 15 same price that we did in February 2014. That should be even more sufficient than what you need the 409A valuation for. And I gave them the background of 409A 17 18 is not going to be useful to you. And he goes, yeah, 19 that's all we need. That will do it. 20 O Did you tell (b)(6); (b)(7)(C) that Theranos was 21 using Aranca to help it develop an internal evaluation 22 model? 23 A I may have had a discussion with him, but I don't recall. Because I used to talk to him pretty 25 openly and pretty frankly because I was trying to 0668 1 solicit his opinion, and his help also many times. But 2 I don't think I dug deep into Aranca, or even name Aranca to him. I told him the model is -- the 409A is not going to be useful for you. And what you really need -- our conversation shifted from you need it for this purpose and we work with other investors and we give them this letter. That will be sufficient for 8 you. He goes, yeah, that's even better because 409A 9 evaluation is probably going to be not that useful. 10 And so after that, in December or early 11 January, I provided him that information and then he 12 didn't come back and ask for anything. 13 O Any other investors ask for a copy of 14 Theranos's 409A reports? 15 A I don't recall at this moment. 16 BY MS. CHAN: 17 Why did you sign Exhibit 252 and represent 18 that you would be providing accurate information to 19 Aranca for the 409A purposes if you weren't intending 20 to provide accurate information for that purpose? 21 Well, this was a form template. I didn't 22 read the entire thing. It was just a template form to renew contract with them, so I didn't necessarily read all the details in the contract. Did you sign the 2013 letter as well? 25 0669 1 A I don't recall. I don't know.

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BY MR. KOLHATKAR:

3 Sitting here today, do you have any concerns that you signed a contract that didn't reflect your 5 intent at the time? 6 A Not at all. 7 O Why not? 8 Because internally, as the company and a counsel on the board and the entire board I said this is a good use and this is a good way of doing this. So I didn't have any concern then, and I don't have a 12 concern now. 13 (SEC Exhibit No. 253 was 14 marked for identification.) 15 BY MR. KOLHATKAR: 16 Q I'll hand you what I'll mark as Exhibit 253. 17 For the record, Exhibit 253 is a document Bates stamped 18 TS0021420 through 21507. 19 Mr. Balwani, I'll represent to you that this 20 document was provided -- the company represented to us, 21 at least, that this document was provided as part of 22 the October 21st, 2014, board binder. 23 A Okay. 24 O Do you recognize Exhibit 253? 25 Yes. It looks like an Aranca report. 0670 1 It looks like -- does it look like a one fair 2 market value of common stock as of September 30, 2014, dated October 21, 2014? 4 Yes, sir, that's what it says. Do you understand this to be the report that 5 was produced pursuant to the engagement letter that you 7 saw 253 -- 252? 8 A That, I don't know. But it would be reasonable guess. It may be something that was already 10 in motion and I just had to sign the paperwork. 11 I want to turn to the page that starts with 12 "company overview." 13 A What page is that? 14 21427. Q 15 A Okay. 16 The -- if you look at the last paragraph, it says, "The company has previously funding from its 17 pharmaceutical partners through prepayments with contracts. In 2013, the company's product development 20 and manufacturing is on track and products were 21 launched in the market Q3 of fiscal year '13." 22 Did you understand that to refer to the 23 Walgreens rollout in Q3 2013? 24 It seems like it, yes. 25 Overall, did you expect Aranca's description 0671 1 of the business to be accurate? 2 Not necessarily. It would be high level I 3 think, but I didn't spend much time on this. Who did spend much time on this?

My guess is maybe (b)(6); (b)(7)(C) 5 probably provided this description, high level description. And I may have edited it, but I don't remember doing it. So -- I don't remember doing it. Q If you take a look at the page ending in 9 10 21447 there's income statement. 11 A Yes. 12 Did you intend for this income statement to 13 be an accurate reflection of Theranos's income for 14 the -- for -- for 2014? 15 A I think I've answered that question earlier, 16 that information that we provided to them had a 17 different purpose. So which was to use this report, 18 not for 409A evaluation, but for us to learn how they value other assets. So with that in mind, I would say yes, we provided them with set of assumptions in mind, 21 this is accurate. 22 BY MR. FOLEY: 23 Q Why didn't you just ask them to value the 24 other assets? 25 A You know, I think I had a conversation with 0672 1 them, and I try. And I may even have e-mail exchanges with them, and they didn't give me a straight answer. They said, well, we cannot just do that. We need to look at other things and we need to look at the whole picture. And I was actually very irritated with them on that point. And I said, well, you should be able to value IP very clearly and our soft assets. And you'll see that I think I was irritated with them. That they wouldn't do it unless we provided them some numbers, some projections for them to come back with a number. 10 11 BY MS. CHAN: 12 When did that conversation take place? 13 I don't recall the -- I mean I talked to them 14 multiple times, so it may be in 2012 and 2013, and 2014 15 also. 16 Q Who did you talk to? 17 I think I answered the question earlier. 18 There were couple of gentlemen from India who I spoke 19 with. I don't remember their names. And then when I 20 was getting frustrated by not getting the answer how to 21 value the IP, I had complained to them. And they said, 22 well, somebody from the U.S. office will call you and 23 have a conversation with you. And this person from 24 U.S. office called me and had a conversation. But 25 again, I don't remember the name either. 0673 1 BY MR. KOLHATKAR: Q Do you see the summary income statement that 2 3 begins on page ending 448, balance sheet on 449 and the cash flow statement on 450? 5 A I do.

I understand your testimony to be that, in

- your view, these weren't necessarily accurate numbers, given the purpose that you had attended this report to 9 be; is that fair? 10 A In 2014 and beyond, correct. 11 So as of October 2014, you necessarily 12 believe that these future figures represented 13 Theranos's best estimates for future revenues? 14 That's correct. What we were -- like I said, 15 just to finish my sentence, is that I commented earlier 16 we took the numbers from the prior years and added two columns, increased that by 20 percent. I forgot the percentage. And we just provided them that information 19 to see how they will come back and provide us with 20 numbers. 21 Q So between the -- comparing the Aranca report 22 versus the financial model dated similarly, October 2014, which document reflects, in your opinion, 24 Theranos's best estimate at the time of its future 25 revenues, as of October 2014? 0674 I would say I relied more on the model as a 1 A place where I would look at the health and where the business was headed. So I use model for that purpose, a financial model. 5 I guess my question is: In terms of your 6 expectation for what Theranos was likely to earn in revenues in the next three months, the next fifteen months, which document would you go to look to as of October 2014? 10 A I would look at the financial model. 11 Q In other words, the financial model would 12 more closely reflect your expectation in the Aranca 13 report; is that fair? 14 A The financial model will reflect my 15 expectations better, yes. 16 You can put that document aside. Who is 17 Woodruff-Sawyer? 18 A I think that's the name of the firm that we 19 were trying to engage, the other firm in the U.S., that 20 would have helped us with 409A evaluation. 21 Q Did -- did Woodruff-Sawyer provide insurance 22 services for Theranos? 23 Well, I'm sorry. Maybe I'm confusing it 24 then. They may be a broker then. I'm sorry. I'm 25 mixing the name maybe. 0675 1 Q Did you provide your insurance broker with 2 financial information in connection with policy renewals from time to time? A I don't think I did. (b)(7)(c) may have. But I
- Q Did you provide them any financial
  information?
  A I don't recall. If I see something, maybe it

didn't provide them information model.

9 will refresh my memory. 10 Q And I guess generally, would it be important 11 for Theranos to provide accurate information to its 12 insurance providers? 13 A I wouldn't know the answer to that because I 14 don't know what was the purpose of the insurance and 15 how much that financial information fed into -- to the 16 insurance quote so I would not know. 17 (SEC Exhibit No. 254 was 18 marked for identification.) 19 BY MR. KOLHATKAR: 20 I'll hand you what I'll mark as Exhibit 254. 21 For the record, Exhibit 254 is a document Bates stamped THPFM0000677241 through 677245. 23 Do you recognize Exhibit 254? 24 A One second. It seems like an e-mail 25 conversation between  $\binom{b)(6)}{b)(7)(C)}$  and a few people on this 0676 1 call from this company. 2 Q And do you see that in the last e-mail here, there's a reference to, "As Sunny mentioned, we run at about 8 to 9 million" -- "we run at about 8 to 9 million a month. The net loss ended 2014 amounted to 6 about 80 million"? 7 I see that. 8 Do you recall having a conversation with any of the recipients of this e-mail where those figures 10 were shared? 11 A I don't recall at this moment. 12 Do you recall being on calls with any of 13 these individuals? 14 A I was on calls with insurance company couple 15 of times, but I don't recall the specific calls. Q Do you remember (b)(6); (b)(7)(C) ever sharing with you 16 17 that the company's net loss for the nine-month period 18 ended in September 30, 2014, amounts to about \$80 19 million? 20 A I don't recall at this moment the specific --21 that information. 22 Q Do you have any reason to doubt that number's 23 accuracy? 24 A No. I mean it came from  $\binom{b)(6)}{b)(7)(6)}$  and it seems 25 like, as Sunny mentioned, she's mentioned my name that 0677 it's probably -- she also says about 80 million, so it's ballpark. So I would say, no reason to doubt 3 that. 4 So if the -- if Theranos's net loss for the nine-month period end September 30, 2014, was about \$80 6 million, would you have had expectation to break even 7 for year end 2014? 8 A I think I answered that question earlier. The answer is, if you exclude the innovation payment 10 and how that was going to get recognized, then the

11 answer would be no, so same answer. 12 Q Would there be any reason why (b)(6); (b)(7)(C) 13 would be excluding it from this description here? 14 A I think for the purpose of this call, we were 15 focusing on burn. But again, I don't remember what the 16 question were and what was the context of the answer. 17 In the 2014 time period, there's a burn rate 18 of 8 to \$9 million sound like a burn rate for Theranos? 19 A You know, I would guess it's on the high 20 side. But probably, yes. I mean, I wouldn't remember 21 what exactly it was. 22 Q Did you ever share Theranos's monthly burn 23 rate with any investors? 24 A I don't recall. But yeah, I don't recall 25 exactly right now. 0678 1 Q Would you expect the financial model we talked about to reflect Theranos's accurate burn rate? 3 A To the best of my abilities, I would say, yes, but because the financial model also had a lot of assumptions, and the store rollout and patients per day 5 and other things, and the expenses were tied to that, I 7 would say if you modify assumptions one way or another, then the answer would be no. 9 Let me ask maybe more simply. 10 How would Theranos's burn rate be reflected 11 in the -- in the financial model? 12 A Probably not be reflected accurately. The 13 reason is, the expenses were tied to assumptions that 14 one could modify. So it was not dynamically tied to 15 the QAD system where the information was being pulled 16 realtime, so that would be the answer. 17 In other words, the -- the burn rate in the 18 model was tied to revenue? 19 A In the model. 20 In the model, right? 21 Which was tied to the assumptions in the A 22 model. 23 Q And that differed from the burn rate that 24 Theranos's actually experienced at the time that you 25 preserve in the finance database? 0679 1 A Correct. 2 BY MS. CHAN: 3 Q Actually, I wanted to ask a question about -- and you can keep that in front of you. But if you go back to Exhibit 195, which I think is in your pile, would be the set of financial information that you sent to BDT. 7 8 A I see that. 9 Do you see that? 10 So this was sent in October 13, 2014. 11 Yes. 12 And if you turn to -- I guess there's no

13 Bates numbers on the page, but if you turn to the 14 projected statement of income in the model, you see 15 that for --16 A Yes, I do. 17 Q -- year end 2014, you're projecting revenue 18 of \$125 million? 19 A Modeling, just to correct it. 20 O Do you see that? Yes. But a modeling, not necessarily 21 22 projecting. Just to clarify that. 23 Q What do you mean by that? 24 That this is a financial model based on the 25 certain assumptions that I'm modeling. That's what the 0680 1 model is showing. I'm not necessarily projecting. 2 Q Okay. That's fine. 3 A Okay. 4 Q And, you know, looking back, then, at Exhibit 254, it looks like you and (b)(6); (b)(7)(C) had 5 told the insurance companies that actually Theranos has 7 a net loss of 80 million as of September 30, 2014? 8 A Yes. 9 Q Right. 10 So which is more correct? 11 A So this is not correct because this is model. 12 BY MR. KOLHATKAR: Q Just for the record, you're pointing to 13 14 Exhibit 195? A Yes. The Exhibit 195 is financial model. As 15 16 a matter of fact, the couple of people from BDT and 17 myself sat in the room and made realtime edits to this 18 model to be able to fix some of the formulas and other 19 things in the model. So this is not representing the 20 accurate information coming from a QAD database at that 21 point. 22 BY MS. CHAN: 23 So if you gave similar revenue projections for 2014 to other potential investors during this time frame, something over a hundred million dollars, that 25 0681 1 would also not be accurate? 2 A It would be, again, share with them as a 3 model saying given these assumptions, this is the 4 output, yes. Q Okay. And -- and so the information that 6 you're providing to Woodruff-Sawyer, in that same month, net loss of \$80 million as of September 2014, that would be accurate? 9 Well, I don't know what -- I think I alluded 10 to that earlier what was their cushion and what I was 11 responding to. But assuming this information here is

correct, this one talks about that number. And again,

Q Did it concern you that the numbers were so

12 13

14

it ballparks it.

15 different, one was, you know, negative 80 million and 16 the other one was over a hundred million? 17 A No, I didn't. 18 O Why not? 19 A Because when I was sharing this information 20 with any investor, I was talking about a planning model over and over again, and very clearly. And this 22 number, like I said, on the call, the purpose of this call and where this information came from was 24 different. 25 BY MS. WINKLER: 0682 1 So did you share accurate financial information with any investors? 2 3 You mean, like, audited financials? No. I mean like accurate financial 5 information out of QAD? Did you tell any investors 6 that? I think the balance sheet that came into the model, I shared with them this come from financial 9 systems. And that is the snapshot as of that date or 10 that month, whatever it's labeled. But the other two sheets there were tied to the assumptions and they were 12 models. 13 So were any investors, around October 2014, 14 aware that there was a net loss in the company of about 15 \$80 million? A I don't recall if I had explicitly that 16 17 conversation with the investor. 18 Q Did you tell any investors that? 19 A I don't recall that at this minute. 20 MR. KOLHATKAR: Why don't we change videos. 21 We're off the record at 4:03 p.m. 22 THE VIDEOGRAPHER: Off the record. 23 (A brief recess was taken.) 24 MR. KOLHATKAR: Back on the record at 4:13 25 p.m. 0683 1 BY MR. KOLHATKAR: 2 Q Mr. Balwani, you didn't have any substantive 3 conversations with the staff during the break; is that 4 correct? 5 That's correct. Α 6 I'm going to hand you a document that's been previously marked as Exhibit 213. I'll represent to you that Exhibit 213 were the financial materials included 8 (b)(6); (b)(7)(C) 10 A Okay. 11 Q I don't want to ask you everything. But I do 12 want to turn to the last page, which is Bates stamped TS607. It says -- it looks like the note section has been changed to an additional comments section. 15 Do you see that? 16 Yup. Α

17 Did you make that change? I probably did. Because nobody else would 18 19 touch these files. 20 Q And it looks like the first line says, 21 "Please note all revenue projections are based on 22 contracts already signed and in place for 2015 and 23 2016." 24 Do you see that? 25 I do. A 0684 1 O You see the use of the word "projections" 2 there? 3 A Yes, I do. 4 Why did you use the term projections in this? Q 5 Because it is inside a whole financial model 6 so I probably used the word -- this word loosely. 7 And the next line says, "No additional 8 contracts assumed signed." As of the end of 2014, 9 Theranos had not signed a contract with CVS; is that 10 right? 11 Α That's correct. 12 So this model should not reflect any revenues 13 from rollout at CVS; is that correct? 14 Well, I think I addressed that question 15 before, that, in some cases, I used CVS or Safeway slash something as a placeholder or just CVS because we 17 had a contract at Safeway. And during the 18 conversations, we will talk through this point with 19 whoever we had a meeting with. 20 I guess how -- how -- I had understood the 21 sentence before to say, "All revenue projections are 22 based on contracts already signed and in place for 2015 and 2016." At this time, Theranos didn't have any 24 contracts in place with CVS? 25 A That is correct. 0685 1 So you're saying CVS could nevertheless be included in the model? 3 The place in the model where CVS comes into play was revenue from pharmaceutical pharmacy services. In the pharmacy services column -- row, we have two rows in there. One was for Walgreens and the other one 7 was for other. In the other, I used to bundle or bulk Safeway, CVS, Walmart or whoever else we would work with in the future. 10 I guess how would you bundle in CVS or 11 Walmart if you hadn't signed a contract yet? 12 The point was, we had a contract with 13 Safeway. So the point I was trying to get across was, either we will execute with Safeway or if we replace that contract, it would be with CVS or some other -- we were working with them, would be the comment that I 17 would make. And that's the comment that I did make in 18 the meeting.

19 Did you make that comment to (b)(6); (b)(7)(C) or 20 his representatives? 21 A I believe so. 22 In what meeting? 23 I think I was only in one meeting where they 24 had two or three additional people in the -- in the meeting. I forgot which meeting it was. And we had 0686 1 showed them pictures from our Safeway locations and we 2 had talked about Safeway in that context. 3 BY MS. CHAN: So you told (b)(6); (b)(7)(C) 4 during a meeting, 5 that if things didn't work out with Safeway, that Theranos was expecting to rollout with CVS, and that was what was being modeled in the financial projection? A Yes. I would walk through that. And other 8 thing also is I think that we also had, in -- in that 10 same row, I would say, Safeway, CVS slash dot, dot, dot. I would walk through that, that we may also work 12 with Walmart, if we -- if we decided to do that. 13 14 When was that meeting? 15 I think I answered that question. It was --16 I don't remember when exactly it was. I think it was December or January, or maybe it may have been November of 2014. Sorry, 2014. But I was in one meeting, my 19 recollection, is that where I had talked about Safeway 20 was when they had two or three additional people with (b)(6); (b)(7)(C) 21 22 You can put that document aside. I'll hand you what's been Bates stamped -- what's been previously 24 marked as Exhibit 227. And I'll represent to you that 25 Exhibit 227 is a document that was provided to the 0687 1 board in connection with the April 2015 board meeting. 2 A Okay. 3 Do you recognize Exhibit 227? O 4 It looks like one of the models. 5 Did you review this information before providing it to the board? 7 A I don't remember exactly this one or not. But in general, I didn't use to. I would just project the model and discuss it. Whose responsibilities was it to present 10 11 financial information to the board? 12 Well, we didn't have a CFO. So if there were any specific questions, usually the questions from the 14 board would be around cash position. And that's where 15 we focused on. But I don't recall having a 16 conversation around monthly revenue or quarterly revenue with the board. I didn't have that information 17 18 is what I would tell them. 19 Whose responsibility was it to provide the 20 company's cash position to the board?

I would. I would reach out to (b)(6); (b)(7)(C) 21 22 before most of the meetings where I would need that information. She would pull up from QAD systems. Or I 24 will speak from memory, if I had spoken from memory and 25 I'll include that. 0688 1 And if you'd look at third page of Exhibit 2 227. And that's one of those balance sheets, right? Yes. 4 And is that information you would generally O get from (b)(6); (b)(7)(C) ? 5 A Either that or it would -- if it is linked to the model, then it would be from the model. I mean, usually I would project the spreadsheet on the screen so I don't know -- I need to look at the formula where it came from. But if it came from QAD system, then it comes from  $\binom{(b)(6)}{(b)(7)(c)}$  But if it came from model, then 12 this would become the model. 13 BY MR. FOLEY: 14 O How would this link to the model? 15 I think we had ending cash in the cash flow 16 statement in the model. So there's a tab in the model that says ending cash balance. It says 664 in 2015 and 18 845. And I will just hyperlink to that. 19 Well, what about the remainder of the balance Q 20 sheet? 21 A I probably didn't touch the rest of the 22 columns. 23 So you think cash may have been linked to the 24 model, but everything else came from where? 25 If I see the model, I would be able to firmly 0689 say that, but I don't recall. 1 2 But if -- if cash is linked to the model --Q 3 A Yes. 4 -- you said it's a possibility, where would 5 the other line items on this document come from? 6 A In the balance sheet? 7 O Yes. They would come from (b)(6); (b)(7)(C) So I would take that, put in the spreadsheet as much as I can and link from here to the model, I would. The others I would 11 just leave the way they are. 12 BY MR. KOLHATKAR: 13 Q Did this information provide your best estimate of the company's projected income as of the 15 April 2015 board meeting? Same answer, based on certain assumptions, 16 the answer is yes. But I would actually walk through those assumptions with the board. That's the whole 19 purpose of me projecting this to the board. By talking to them about how things are going at Safeway and other 20 21 places. 22 BY MS. CHAN:

23 So this was given to the board in April 2015. So by that time, you know, obviously the company 25 already knew how much in revenue it had made in 2014. 0690 1 Was it consistent with your understanding that Theranos 2 has made \$108 million in 2014? 3 We had discussed that at the board meeting. 4 I recall this because I had -- this was the Walgreens innovation payment that we discussed earlier. And I had highlighted to the board that we had \$100 million innovation payment from Walgreens that's included here. I don't know how to recognize this from accounting purposes, that's not my forte, but I'm highlighting 10 that's the -- that's the number here, included here. 11 BY MR. KOLHATKAR: 12 Where is the other 8 million? 13 I actually don't remember. I'll have to look -- look at the spreadsheet. It may be that I was guessing that this is how much we had ballparking, this 15 16 is how much --17 Q I just --18 Sorry. I don't remember this moment. 19 BY MS. CHAN: 20 O In the 25 million, initial \$25 million 21 payment from Walgreens came in 2013, right? 22 A Correct. 23 So why was it being included here in 2014? 24 I had discussed that also at the board, at 25 that meeting. That when -- originally when I had put 0691 1 the 25 million in 2013, that we didn't recognize that as revenue in 2013. So it may be that the entire payment is going to be recognized in 2014 or 2015. I wasn't sure. So I provided that information to the 5 board. 6 BY MR. KOLHATKAR: 7 Q In 2015, who is the company's secretary, the board's secretary? A I don't recall. It may be me in 2000 -actually, we had a hired our general counsel, (b)(6); (b)(7)(C) 10 (b)(6); (b)(7)(C) 11 12 13 How did the board maintain its minutes in 14 2014? 15 A I think at some meeting, I took the notes. 16 Actually, I take that back. Actually, I took some notes. I think in some meetings either (b)(6); (b)(7)(C) 18 Elizabeth took the notes, but I don't recall exactly. 19 And would the board vote on minutes from 20 prior meetings and later meetings. In other words, 21 would you vote on -- I'm just -- as an example, vote on 22 the January minutes at the April meeting? 23 A Not if -- not necessarily immediately on the 24 same meeting. Sometimes we be behind in the board

25 minutes so then we will roll it and vote on two prior 0692 1 meetings. I remember once in a meeting that happening, but I don't recall exactly which meetings. 3 Q And do you believe the minutes would reflect 4 the fact that you discussed this document as a model? 5 A I don't know. I don't recall the notes. But in some cases, I was taking the notes. In some cases, others were taking the notes. I was not a very good note taker because I was also doing a lot of talking. 9 MR. COOPERSMITH: He's talking about the 10 minutes. 11 THE WITNESS: Oh, sorry. I don't know. I 12 don't know the answer. 13 BY MR. KOLHATKAR: Q Who would take notes while you were talking? 14 15 Anyone step in to the note taker role? 16 A Later on, when (b)(6); (b)(7)(C)had joined, I 17 think she took over. Before then, I think maybe (b)(7)(c) 18 (b)(6); was taking notes or Elizabeth, like I said 19 earlier. So I don't remember exactly. Q You can put Exhibit 2 --20 21 BY MR. FOLEY: 22 Can I ask one more question? 23 Yes. 24 If you look at the last page, Exhibit 227, 25 and go to Exhibit 213, the last document in Exhibit 0693 1 213. 2 A Okav. 3 Do you see that the total asset from Exhibit 213, as of December 14, are 603,745? 5 Α Yes. 6 Q Okay. You see that's the same number as total assets on TS0021913, which is Exhibit 227? 7 8 A Yes, I do. 9 Those are different months end, right? O 10 Α That's right. 11 Do you know why the balance sheet hasn't 12 changed between -- in that one-month period? 13 A I think it's showing the same balance sheet 14 here, if I'm not mistaken. In the date at the top, it 15 says December 2014 and the other one January 2015. 16 0 Right. 17 So my guess is, it may be the same balance sheet that I didn't get a chance to update probably 18 19 because all the --20 BY MR. KOLHATKAR: 21 Again, do you know or you're guessing? 22 A I'm just looking at the number. They're all 23 matching. Actually, that's a good observation. So 24 that's what it looks like. 25 BY MR. FOLEY: 0694

- That you -- sorry. 1 O 2 A It looks like that is the same information. 3 Even the date says December 2014 and January 2015. 4 O Right. 5 And I'm not sure. You know, I think it's -it may be 12/31 and 1/1/2015, if you look at the formula. I don't know what's behind it. But it seems like it's identical balance sheet so it's not updated. 9 Q So I guess my question is: What date is 10 this -- are these numbers from? A Probably January 2015. You're talking about 11 12 this one, right? The one that says January 2015? 13 O I'm trying to figure out why two balance 14 sheets with different dates have the exact same 15 balance. A I think they may be off by a day. I mean, I 16 don't know. If I look at the date behind this, I may 17 be able to tell. 19 BY MR. KOLHATKAR: 20 Q You can put those exhibits aside. Thank you. 21 I want to talk generally about investor communications. 22 You mentioned earlier sort of a process where 23 you would attend some investor meetings; is that generally your recollection? 25 A Yes. 0695 1 Q Were there certain topics you and Ms. Holmes split up in those meetings? A Not necessarily. Every meeting was very different. I mean, I'm assuming you're referring to 5 2014, '15, time frame, or all the way 2010? Q How about let's take end of 2013 through 6 7 early 2015. 8 A I don't think we ever walked into a meeting that was -- or two similar meetings. Every meeting was 10 different because the people we were meeting with 11 were -- had different backgrounds, different 12 businesses. Our conversations were almost different --13 always different. Some strategic partners were more 14 interested in how would we work together, you know, 15 five years, ten years, whenever we work together. And 16 others were more interested in learning, you know, 17 how -- more about the business so they can think how 18 they would help us. So it was a very different 19 conversation. 20 Q In your experience sitting in on it sounds 21 like -- were there a number of meetings in that time 22 frame? 23 Α There were a few meetings. I don't -- I 24 don't remember how many, but not too many, though. 25 More than ten?
- 1 A Probably not more than ten. But that would
  2 be about right, ten, twelve number, yes.

```
3
          In any of those meetings, did you ever hear
   Elizabeth Holmes something -- Elizabeth Holmes say
5
   something that you thought was inaccurate?
6
      A No.
7
          Did she ever raise any concerns about the
   accuracy of any of the information you were providing?
         No. I was showing the model so I don't think
10
   that was an issue.
11
       Q Did you have any other role in these investor
12 meetings other than showing model?
13
       A Yeah. Like I said, we -- there was no split
14 of what we said. Our focus was describing our vision
15 for the company. And I would say 80 percent of the
16 conversation, if not more, was describing that. And
17
   clearly, like I shared with you earlier, software was a
18 very significant part of company's vision. I used to
   talk a lot about software, and what role software is
   going to play in terms of future and where we see our
21
   growth and so on and so forth.
22
       Q Who at the company had the final authority to
23 decide what written materials were provided to
24
        investors?
25
       A I don't think either of -- there was anybody.
0697
   Because most of these conversations we had with these
1
   investors more as potential partners. So like I said,
   each meeting was different. And this is why the
   information that we discussed in meetings was also
   mainly different. It depended on the interest level on
6 the person on the other side. Some had more technology
   background so, you know, we tend to talk more about
   tech and software. So I don't think it was a decision
   that this is the word that we are sharing with them.
   It was a really open-ended conversation talking about
11
   vision out in the future, two years, five years, ten
12
   years, sometimes 15 years or more.
13
       Q I'll hand you a document -- you can have more
14 water. This will take me a second.
15
           Okay, good.
16
                   (SEC Exhibit Nos. 255 and 256
17
                   were marked for
18
                   identification.)
19
          BY MR. KOLHATKAR:
20
       Q I'm going to mark two documents. One I'll
21 mark as Exhibit 255, one I'll mark as Exhibit 256. And
    for the record, Exhibit 255 is a document Bates stamped
23
    THPFM0003870572. And 256 is a document Bates stamped
24 TS315637 through TS0315903.
25
          Do you recognize Exhibit 255?
0698
          Yes, I do.
1
      A
2
      O
          What is it?
3
          It's an e-mail communication between myself
  and (b)(6); (b)(7)(C)
```

5 Are you sending him a slide deck? O 6 It seems like it, yes. 7 I'll represent to you that Exhibit 256 is the 8 document that the company identified as the attachment 9 that was provided to PFM in connection with Exhibit 10 255. 11 A Okay. 12 Q Do you --A Should I put this away? 13 14 Q You can put e-mail aside. 15 Do you recognize Exhibit 256? 16 Yes, I do. 17 O What is it? 18 It seems like a copy of one version of the 19 slide deck that we used in almost most of the meetings 20 that we had. 21 Q And I think we described this process 22 generally yesterday. Was this that sort of slide deck 23 that you -- that was on a shared drive with the company 24 that various people would provide inputs to? 25 A Yes. 0699 1 Did you review this deck before providing it to (b)(6); (b)(7)(C) 3 No, I did not. 4 Q Did you present parts of this deck to (b)(7)(c) 5 (b)(6); (b)(7)(C) A Yes, I did. 6 7 Q When did you do that? 8 I don't remember the exact date, but I think, in January of 2014, I met with them two or three times. And we probably used this deck for discussion in one of those meetings, which I think is being referred here. 12 So my guess is it's before January 7 -- 17, 2014. 13 And was something similar to this available 14 for -- did you use something similar to this with other 15 investors in the CT round? 16 A Yeah. I mean, we use this deck for, I would 17 say, or similar deck for all of our meetings that we 18 had. 19 Q I want to turn to page ending in 651. 20 21 Q Do you see this slide entitled "Same Tests a Whole New Approach"? 22 23 A I do. 24 And there's a series of picture here. Can 25 you explain what this is a series of pictures of? 0700 1 A Yes. These pictures are showing a process of collecting a sample from finger stick. And finally one 3 nanotainer at the end. 4 Q The nanotainer is the image on the far right? 5 Α Far right, correct. 6 And the -- is the CTN the -- the item that's

```
pictured in the image third from the right?
8
           Correct, yes.
9
           So can you just explain to me how -- what
10 would be transferred from CTN to the nanotainer?
11
          Yeah. So what happens is, there are other
12 steps before that also. You would wick the finger with
   the alcohol swab, clean it up. And obviously you don't
   hold the finger like this. But the finger was held
   using gravity. So people are sitting on the table,
16 but --
17
       O
           Sorry. It looks like from this picture that
18 the finger is --
19
       A Yeah.
20
       Q -- faced up?
21
       A Faced up.
          But you wouldn't do that in reality?
22
23
          No, no. It's not the case because gravity is
24 not very happy with it. So you want the finger facing
25 down. A patient would be sitting on a chair. And you
0701
1
   will use the pink lancet. This was a lancet, just like
   you use glucose test. We will puncture the skin. We
   would also, I mentioned earlier, we would give somebody
   a bottle of water so they can bleed better. And then
   we would wick off first drop of blood, depending on the
   test and the protocol. We would use that CTN that you
   see in the third bubble to wick the blood into the
8
   capillary tubes. Then there was an entrance step where
   you would basically press the CTN and the blood would
    go inside the nanotainers, inside the holder. And --
    and that would be -- and then the -- there were two
12 nanotainers attached to the CTN. Every CTN had two
13
    nanotainers. This one is only showing one.
14
       Q The -- the line below the picture says,
15
    "Theranos runs any test available in central
16 laboratories and processes all sample types."
17
          Do you see that?
18
       A I do.
19
       Q In -- at the end of 2013 or early 2014, was
20
   Theranos running any tests available in central
21
    laboratories?
22
           So I think there are two answers to that. I
    believe the answer is true, yes, we were running tests
    available -- any tests available in central
25 laboratories. And processing all sample types.
0702
1
         However, I think I make a broader point here
   is that a large number of slides in this slide deck are
   aspirational. We use to just cut and paste and drop
   from marketing literature. And some of them are
5
   physician office -- office presentations. So a lot of
6
   the information here was aspirational. And it was, in
7
   many cases, never even used ever.
8
         But when we started this conversations,
```

- 9 usually this deck was running on my computer or there
- 10 was a separate computer in the conference room where it
- 11 would run, but I would be manning the computer most of
- 12 the times. And I would say, here's a slide deck -- I
- 13 would provide this background basically. It's a slide
- 14 deck. It has a ton of content. We have collected
- 15 content from marketing efforts and some of the design
- 16 work that we're doing for our apps and so on and so
- 17 forth. So we just want to give you an overview of what
- 18 we were thinking about. So that's what the slide deck
- 19 is.
- Q Do you recall telling any investors that the slide deck included aspirational information?
- 22 A Absolutely.
  - Q Which investors do you recall?
- 24 A Every single investor.
- 25 Q Everyone you met with you told --

0703

- 1 A Every single -- there's no way we -- this
- 2 information that I shared with you, it was my routine
- 3 every single time I would start with a discussion, not
- 4 just investors, like I said, I used to man the
- 5 computer. I used to sometimes walk through the slide
- 6 deck. Of course, there was never ever any meeting in
- which we walked through all of them. Not even half of
- 8 them. Some meeting we would not even get to, you know,
- 9 ten slides.
- But I would always start by saying there's a
- 11 lot of stuff here that is -- some of it we're doing.
- 12 Some of it is aspirational. Some of what shows a
- 13 revision, but we want to share with you what we're
- 14 doing. Because the people we were engaged with in
- 15 these meetings, what all people that we wanted to
- 16 engage with for a very long term, five years, ten
- 17 years. So we would -- I would always make sure that I
- 18 could share that.
- 19 Q I guess, in just taking a look at this slide,
- 20 do you see how someone reading a slide could get the
- 21 impression that Theranos could run any tests available
- 22 in central laboratories and process all sample types
- 23 from the finger stick?
- A No. The reason for that is almost every
- 25 single slide here requires a voice or an explanation to 0704
- 1 go along with the voice. And that's the reason we used
- 2 to use this as a discussion deck. So we could -- some
- 3 slides have pictures, which don't show you anything,
- 4 and no words there. You wanted somebody to provide
- 5 the context. So -- and people that we share this
- 6 information with, people are very clear about that.
- 7 Q Okay. Do you recall sharing this particular
- 8 slide with any investors?
- 9 A I don't recall any -- any one single
- 10 investor, but this is part of the slide deck. So

- 11 sometimes we would actually get the slide deck, but if
- 12 they had already seen the finger stick process, like a
- 13 demo, then we would just skip it.
- If this slide deck required sort of a voice 14 15 over, would there be any reason for Theranos to provide in the materials to investors before any meetings? 16
- 17 Yes. Because we would -- any meetings where 18 we would meet with them, we would walk them over, 19 walk -- walk through the slide deck with them. 20

## BY MS. WINKLER:

- 21 But you just told us that you never walked 22 through the whole slide deck with the investors?
  - A Yeah.

- 24 So how are they supposed to decide when they 25 got it, or after your meeting, what was aspirational 0705
- and what was not? 1
- 2 A I mean, if we -- when we were walking through 3 the slide deck, we were actually jumping around and giving them information that they were interested in 5 engaging with. A lot of the slides here are -- they
- cannot speak for themselves, but they're aspirational.
- And any time they were not, like I said, we would
- provide some commentary. But we always provided a
- slide deck saying -- by saying this is a discussion
- 10 deck that we will discuss in the meeting. This is what
- 11 we discussed in the meeting. And sometimes people at
- 12 the meeting will say, oh, there's a lot of content.
- 13 There's a lot to go through this. This is very
- 14 interesting. It shows you plans for the future so give
- 15 us a slide deck after that.
- So this slide deck that we're looking at 16 17 here, is anything on there indicate that's it's aspirational? 18
- 19 A If you just look at the slide by itself, 20 obviously there's no comment here that says it's 21 aspirational, which is why I said there's always a 22 voice over that goes with the slide.
- 23 So what if you didn't discuss this slide at a 24 particular meeting?
- 25 Yeah. Then people just skip it and ignore it 0706
- 1 and move on.
- Q And then if investor looked at it after the 2 meeting, it doesn't say it's aspirational so how would 4 they know that?
- 5 I mean, our expectation was, because I shared 6 with them that there's a lot of ideas in the future and many of these slides are -- show our ideas, they would reach out and ask us the question if there's something
- that was very important for them that they wanted to know for sure before they made a partnership decision 10
- 11 or any decision.
- 12 Was there ever an occasion where an investor

- 13 actually asked for additional information and you
- 14 refused to give it to them, for example, financial
- 15 information?
- 16 A It depended -- it depended on the
- 17 information. It would be possible. But I don't recall
- 18 exactly which and when.
- 19 Q So you don't recall any instances where
- 20 Theranos told an investor that they could not have
- 21 additional -- a potential investor that they could not
- 22 have additional information that they requested?
- 23 A No, I'm not saying that. I said it's
- 24 possible. I don't recall it, but it wouldn't surprise
- 25 me if that was the case.
- 0707 1

## BY MR. HABERMEYER:

- 2 Q Mr. Balwani, I want to ask you a question in 3 follow up.
- 4 I believe I heard your testimony earlier that
- 5 this sentence directly under the pictures Theranos runs
- 6 any test available in central laboratories; is that a
- 7 true statement as of late 2013 or early 2014?
- 8 A In my understanding, yes, it was correct.
- 9 Q So this was not an aspirational statement?
- 10 A At this point, no, I don't believe so.
- 11 Q So Theranos was able -- was running, at that
- 12 point in time, any tests available in central
- 13 laboratories?
- 14 A Yeah. I think -- maybe I should clarify.
- 15 That central laboratories does not necessary mean Quest
- 16 or LabCorp running 3,000 tests. Central laboratories
- 17 is a term used -- like hospitals have central
- 18 laboratories. So they also run tests, but they don't
- 19 run all 3,000 tests. So this was not meant to mean
- 20 that we run all 3,000 tests in our laboratories. The
- 21 point is, there are different types of tests laboratory
- 22 run, like urine, feces, general chemistry, nucleic acid
- 23 amplification, infectious diseases. And we don't do
- 25 amplification, infectious diseases. And we don't do
- 24 those test. That's what it's mainly communicating.
- Q Did you explain that in these meetings with 0708
- 1 investors it was not meant to include the 3,000 tests
- 2 that Quest and LabCorp would offer and instead, just
- 3 the handful of tests that you just described?
- 4 A We would talk about how many tests we were
- 5 running in our lab. And we had only 150, 200 tests in
- 6 the lab -- in our laboratory. So it's one of those
- 7 assumptions that -- I don't think I said, oh, by the
- 8 way, we don't have 3,000 tests we are running. Because
- 9 if we did, they would be on our menu. They would soon
- 10 be appearing on our menu, we would be telling people we
- 11 will have 3,000 tests on our menu in two months.
- 12 That's not the case. We had 200 tests and that menu
- 13 stayed fairly static in that range. So I don't -- I
- 14 didn't say it to somebody, by the way, any tests means

```
3,000 tests. No, I didn't.
15
16
          But also, at the same time, it was extremely
17 simple and obvious to me that nobody is making the
    assumption that a small company like ours is running
19 3,000 tests, like Quest Diagnostics or LabCorp.
          BY MR. KOLHATKAR:
20
21
          At this time, Theranos's CLIA lab, if it had
22 a test, if it received a sample for a test it couldn't
   run, it would send it out to a reference lab; is
24 that --
25
       Α
           That's correct.
0709
1
      Q
           To like an ARUP, is that --
2
          And UCSF sometimes, and may have other
3
   laboratories, but yes.
4
      Q
           If you turn to the page ending in 682.
5
      A
          Okay.
6
           You see the picture where there's a contrast
7
   of a picture of a lab day when it looks like someone is
   getting a venipuncture test and contrast that, the
   arrow to Theranos picture with the finger stick. Do
10
   you see that?
11
       A Yes. So that's not just a venipuncture test.
12
    That's also looks like a syringe.
13
           Oh. What do you mean -- how do you know?
14
           Because we know. I mean, people looked at
15 syringes and done lab tests. They can tell that's a
    syringe, or not a butterfly, like a traditional lab
17
    draw. That's what it is.
18
       O Okay. So -- so what does this pictures
19 represent in your mind?
20
       A I think you have to look at the two pictures
21
    and -- next to each other. The one after that.
22
   Actually, you already have it, I think.
23
           So this -- just for the record, you're
24 referring to the page ending in 83?
25
          Yes. 683.
       A
0710
1
      O
          Okay.
2
           So the discussion here is that we're
   transforming the patient experience. And we talked in
   one slide about tests that can be performed from finger
5
   stick. And obviously people that we were talking to,
6 like (b)(6); (b)(7)(C) and others at PFM, saw that we were not
7
   drawing that much blood, we were drawing more blood.
   But this was to get the point across that we are doing
   finger stick. Just this one doesn't show a full vial
10 of blood; it just shows the concept. And then this one
    shows that we also use venipuncture and here's the
12 butterfly needle which is a much better patient
13
   experiences that we use.
14
       Q I guess -- so looking at the picture above
15 the butterfly needle picture --
16
       A Yes.
```

- 17 -- what's that supposed to represent? 18 A I think it's a snapshot of Quest Diagnostics 19 Laboratory or -- or a traditional laboratory, patient 20 collect center. 21 Q I guess I'm a little confused because it 22 looks like a traditional blood center and then two 23 venous draws there? 24 A Yeah. But one of the venous draw is very 25 different from the other. Just like these are two 0711 different slides. This one is showing you a venous --1 a venipuncture from a different type of vessel. And you have finger stick here. And this one is showing --I mean, if you look at the headline, transforming the patient experience is what it's talking about. 6 O So it's your testimony that the slide ending in 83, transforming a patient experience slide, the picture on the top and the picture on the left refer to 10 the old patient experience and the picture on the right bottom right refers to the Theranos's experience? 11 12 Yes. Theranos's venipuncture experience. 13 Because we -- like I said, that's the butterfly that we've been talking about since yesterday -- yesterday 15 and today. 16 Q If you turn to the page ending in 85 --17 Okay. Α 18 -- the column on the right says, "Routine specialty and esoteric testing." 19 20 A Yes. 21 Do you see on the left it says, "All 1,000 plus currently run tests slash CBT codes are available 23 through Theranos"? 24 A Correct. 25 Was that aspirational or current? 0712 1 A I believe at that point, it was current. Because we were -- end of 2013, we had shared this with 3 PFM that we were still sending out tests to ARUP. So we did have the entire menu that we had started out with -- with in 2011. But I think in Q1 of 2014, we deprecated it because the overhead of maintaining the tests that we were sending to ARUP, given the low volume was low. And then later on, we were still -- we were contemplating should we add more tests or not. So 10 at this point, I believe in 2013, it was -- it was 11 correct. 12 O So I guess in the late 2013, early 2014 time 13 period, Theranos was offering 1,000 plus CBT codes? 14 Yes. The way it will work was, the answer is 15 yes, we were offering it, but we were not
- A Yes. The way it will work was, the answer is yes, we were offering it, but we were not advertising -- advertising that on the menu. On our menu, we had about 200 tests or so. But if a patient showed up, like, the case at Safeway location that we

had since 2011, the tests that were not on our menu, we 20 would still collect the sample. Because we didn't want 21 the patient to go away. So we still had those thousand 22 or 800 or 700 tests available from the ARUP menu 23 available to us. Q What about the next bullet, "Theranos runs 24 25 any test available in its central laboratories," is 0713 1 that aspirational or actual? 2 A I think that's the same comment that I made earlier that -- that we were running any type of test in the central laboratory. 5 Q So in other words, this wasn't an 6 aspirational statement at that time? That's correct. That's my understanding. 8 If you look at the page ending in 98. 9 10 A Yes. 11 O I think we reviewed an earlier version of the 12 slide in connection in an earlier exhibit. Do you 13 recall that? 14 A I'm sorry, which -- which one? 15 O Validation of Theranos. 16 A We saw this one before. 17 Q Something similar to this before, do you 18 recall seeing that yesterday? 19 Actually, I've seen a lot of stuff. Sorry. 20 O It's fine. My statement had no real use. 21 A Okay. 22 Q I'll move on. Do you see the sentence there, 23 the third paragraph in, "Lab infrastructure is validated under FDA, ICH and World Health Organization 25 guidelines." Do you see that? 0714 1 Α Yes. 2 As of the end of 2013, start of 2014, was 3 that a true statement? 4 You know, I was not familiar with the chemistry side and R&D side and lab side of the picture. So I don't know if that was true or not. This was not my expertise. So I would not be able to 8 make a firm statement. 9 O Who -- whose expertise was it? 10 A I think there were different people in the chemistry department who would know more about it. The 11 team leads that we talked about yesterday, six or seven people, that I mentioned yesterday, they would know 14 what guidelines they were following in the chemistry 15 element process. I was not involved with that. I 16 didn't have the expertise. 17 Q Did any of the team leads ever meet with any 18 investors? 19 No. I don't -- I mean, I think when I had Α 20 taken (b)(6); (b)(7)(C) for a tour of our lab, he may have

- 21 seen people and he may -- he may have introduced
- people, but he didn't meet with them in a meeting, justlike a handshake or a hi.
- Q Did you ever bring any of those team leads to 25 discuss this slide when going through the slide deck 0715
- 1 with potential investors?
- 2 A I don't know because I think this lab
- 3 infrastructure is validated, has been there since 2010,
- 4 and before. We saw that somewhere else also. So this
- 5 was the company's -- these guidelines -- guidelines,
- what I think in place already when I joined the
- company. So -- so it's possible some of the lead --
- 8 team leads met with investors back then in 2010 or '11
- or before, but not in recent days, not in recent years.
- 10
- 11 Q Between you and Ms. Holmes who would be the 12 person more capable of describing the validation of
- 13 Theranos systems under the guidelines listed here?
- 14 A Which sentence? I think there are a lot of 15 different things here.
- 16 Q Just that same third sentence.
- 17 A Yeah. The lab infrastructure is validated.
- 18 She would -- back in 2010, she had more knowledge about
- 19 this. I don't know if she still was plugged into this
- 20 or not. But like I said, there were other team leads
- 21 and chemistry who would know this for sure.
- 22 Q I guess. But between the two of you, who
- would know more about it at the end of 2013, start of 24 2014?
- 25 A I mean, I assume they didn't. But I wouldn't 0716
- 1 guess if she knew or not.
- 2 Q Turn to the next page, the page ending 700,
- 3 there's a page called "Products." What is this -- what
- is this slide used to explain?
- 5 A I think it give a flavor of some of the
- 6 products that we had worked on or some of the products
- 7 that were available.
- 8 Q You mean, you think this slide was just to
- 9 give a flavor of those products or to actually describe
- 10 the products that Theranos had?
- 11 A No. This is certainly not -- doesn't look
- 12 comprehensive. Because a lot of things here are -- are
- 13 not mentioned, like ton of software that we wrote is
- 14 not mentioned here and --
- 15 Q What else?
- 16 A We also don't have any mention of 3X devices
- 17 here. It only talks about miniLab -- miniLab and 4S.
- 18 We would obviously not talk about our modified devices,
- 19 but --
- 20 Q Why wouldn't you talk about your unmodified
- 21 devices here?
- A Why wouldn't we? Because we would bind them

- 23 commercially. They were not necessarily inventions or
- 24 products that we were developing in-house, would be
- 25 my -- my guess.

0717

3

- 1 Q Did you ever tell any investors that Theranos 2 was vertically integrated?
  - A That's the term we used, yes.
- 4 Q Was Theranos vertically integrated in 2013?
- 5 A That was a revision that were -- I mean, we
- were already doing a lot of pieces. Vertical
- 7 integration is an open-ended stack. You can never be
- 8 completely vertically integrated. For example, in our
- 9 TSPU, we used to buy micro processes from Intel. So
- 10 clearly not full vertical integration. But the point
- 11 here was, and our vision was, that we want to
- 12 vertically integrate and we want to talk about this
- 13 with the investors, that we were probably more
- 14 vertically integrated than any kind of company we knew,
- 15 and our vision was to be even deeper -- have deeper
- 16 integration.
- 17 Q And part of that discussion of integration,
- 18 did you explain that Theranos manufactured its analyzer
- 19 devices?
- 20 A Yes.
- 21 Q As part of the that conversation, did you
- 22 explain that Theranos also purchased commercially
- 23 available machines?
- A Depending on the conversation. But in some
- 25 cases, yes, that would come up.
- 0718
- 1 Q Do you recall any instances where it came up?
- A I don't recall, but it's kind of an
- 3 uninteresting detail that I probably wouldn't remember4 either.
- 5 Q If you look at the next page, there's an
- 6 overview of Theranos's systems. Do you see that?
- 7 A Yes.
- 8 Q What are the devices on the top left picture
- 9 here?

- 10 A This is our, I think, 4X and 3.X device.
- 11 Q The one on the left is?
- 12 A Sorry. The one on the left is 3.X, the one
- 13 on the right is one variation of 4.X device.
  - Q What variation is that?
- 15 A I don't recall the code name or the version
- 16 number, but it's a 4 -- 4X series device. I cannot
- 17 from picture exactly what it is, but I know it's a 4
- 18 series device.
- 19 Q Again, this is an overview of Theranos's
- 20 systems, right?
- 21 A Yes.
- 22 Q I think earlier we were talking about, you
- 23 know, the use of an analytical systems, analyzer,
- 24 devices, do you remember that, just discussion

```
25 generally?
0719
1
      A
         Yes.
2
          Would Theranos's systems include more than
3
   the items that are sort of in that box there?
4
          Probably, yes.
5
          What else would it include?
      Q
          We also had our own reagent and antibodies
6
   that we were manufacturing. So that would be included
   over here. Obviously I think I already mentioned that
   in addition to this decision support system, we also
   had a lot of software that we were using that would be
   mentioned here. This is actually 2013, right? This is
12 the --
13
       Q
           I think the date of the cover e-mail is early
14 2014.
15
          Yeah. And obviously the CTNs are not
16 mentioned here so I would say CTNs.
17
           Anything else?
       Q
18
       A
           Probably other things, but that's what comes
19
   to my mind top of my head.
20
           Turn to pages ending in 710, slide called
21
    "Theranos Proprietary Test." Do you see that?
22
           Yes, I do.
       Α
23
           Do you see that the first number there is
24 routine specialty and esoteric tests?
25
          Yes, I do.
0720
1
          At the time, did Theranos provide routine
   specialty and esoteric tests?
3
          Through a CLIA lab, yes.
4
          What do you mean by through the CLIA lab --
5
   CLIA lab?
6
      A
          That these tests were on our menu.
7
      0
          Including some that we sent out to ARUP,
8
   right?
         No. From -- from what I remember, we were
   also doing specialty and esoteric testing labs.
11
           How was Theranos conducting those esoteric
       Q
12 tests?
13
       A I mean, I will have to look at test-by-test
14 basis, but some were probably conducted using our
   technology on the modified devices. If they were
   considered esoteric or specialty, and some were being
17
   conducted using venipuncture.
18
           And so for those ones that were being
19
   conducted on venipuncture and run on nonmodified
20
   devices, how were they Theranos proprietary tests?
21
          Then my -- again, this slide would not be
22 referring to that, this slide would be referring to the
    fact that we are capable of doing routine specialty and
    esoteric tests using Theranos's proprietary technology.
25
          I guess did you -- did you consider
0721
```

- venipuncture run on a commercially available machine unmodified to be a Theranos proprietary test? 3 A No. 4 Did you explain that the routine specialty Q and esoteric tests, then, may have referred to more than Theranos's proprietary tests? 7 Depended on the discussion. But if the discussion was that can we do using our technologies, these tests, I think the answer would have been yes, 10 and we probably -- I don't know exactly which test 11 falls into specialty and esoteric category, but I know 12 some tests that we were doing using -- using our 13 technology did fall into this categories. So the 14 answer is, yes, we would say our technology is capable 15 of doing this test. 16 Q Okay. If you want to turn to the page ending 17 in 29 -- I should say 5 -- or 729. And this is -- this 18 is a reference to Theranos cost savings; is that right? 19 Α Yes. 20 O I just want to go through these and you can 21 tell me whether these were actual at the time or 22 aspirational at the time. So how about that first 23 bullet, was that aspirational or actual at the time? 24 This was aspirational. 25 What about the second? 0722 1 Α Aspirational. 2 O Third? 3 Α Aspirational. 4 The fourth? Q 5 Α Aspirational. 6 The fifth? 7 A Aspirational. 8 Q And the last one? 9 A Aspirational. 10 So did Theranos, in terms of actual 11 capabilities at the start of 2014, what were Theranos's 12 actual cost savings that were available? 13 A Cost savings to -- to the consumers or cost 14 savings to Theranos itself? 15 O To Theranos itself. Or the consumer. I 16 mean, the consumer would just be the pricing, right? 17 A Yes. 18 O Okay. 19 A So that's -- so -- sorry. I didn't mean to 20 interrupt. 21 What about Theranos internally? 22 I don't think this is talking about the Theranos internally, which is why I wanted to clarify 24 this. This is saying how Theranos envisions a fully 25 loaded cost saving and I can walk you through all five 0723 1 and explain how we envisioned it.
- 2 Q Okay. I guess why don't we look at the

- 3 fifth -- fifth or six bullet point that says, "The
- 4 unprecedented lack of variation from system to system
- 5 yields higher integrity data and longitudinal
- 6 trending." Do you see that?
- 7 A Yes. Yes.

15

- 8 Q At the time, did Theranos's SPU create an
- 9 unprecedented lack of variation from system to system?
- 10 A I would say no. But I also, like I said
- 11 earlier, we were not representing that either. This
- 12 slide was talking about the future and the discussion
- 13 around that would be that this capability would allow
- 14 us to do what we were talking about here.

## BY MS. WINKLER:

- 16 Q So why doesn't this slide say Theranos's 17 future cost savings?
- 18 A Yeah. I mean, I think what happened was,
- 19 because a lot of people were just dragging and dropping
- 20 slides here, nobody actually went and edited it and
- 21 fixed the tenses because the assumption was, you're
- 22 always talking through the slide. And people who were
- 23 present knew, for example, that realtime and ER and
- 24 hospital reduces bed stays and cost. That's true. Are
- 25 we doing that, are we in ER and -- and hospital? 0724
- 1 Obviously the answer was no.
- 2 So when we met with hospital partners or
- any -- any strategic partner, we would talk about these
- 4 in vision statements. I don't recall what was the
- 5 original source of this, but I know a lot of the
- 6 information was just cut and paste and drag and drop
- 7 into the slide deck.
- 8 Q So as we sit here today, can you tell me that
- 9 you told every potential investor that Theranos's
- 10 systems aren't in physicians' offices at that time?
- 11 A I wouldn't -- I -- I didn't say to investors
- 12 that we were not, but we were very clear and we never
  - 3 said we were in physicians' offices. Because it was a
- 14 vision and aspirational that we used to talk about in
- 15 the meetings. If we were in physician's office, that
- 16 would be a major discussion point in our discussions.
- 17 Q But did you tell any -- did you tell all the
- 18 investors that you talked to that Theranos's systems
- 19 were not in physicians' offices at the time you gave
- 20 the presentations?
- 21 A I think I answered the question. The answer
- 22 is, no. However, I said we also didn't tell people we
- were in physicians' offices because the people we were
- 24 engaging with, the lab partners, the hospital partners,
- 25 and the investors were sophisticated because we were -- 0725
- 1 when we would say, ultimately, when we are in
- 2 physicians' offices, this is what will happen. We
- 3 never said, oh, by the way, we are in that physician's
- 4 office and this is what we're doing. That is not the

case. We were talking about aspirational. BY MR. KOLHATKAR: 6 7 You mentioned something in an answer a minute ago that you didn't correct necessarily past tense or 8 present tense, didn't have someone go through the slide deck and correct for that. 10 11 Did Theranos sometimes confuse past, present 12 and future tense in discussion with its investors? 13 A No. And I wish I had gone through this, and 14 I regret that I hadn't paid attention to that, but the 15 answer is no, we were not confusing. It's just that, 16 literally, people were just dropping slides and cutting 17 and pasting into these things. There were too many 18 hands into this thing, the slide deck. And the core assumption was this was a discussion deck. And we are always walking people through this because, even by 21 itself, if you go through a large number of slides, the 22 right audience, if this was given to a completely 23 uneducated person, it would be different. But we were 24 always accompanying this with providing details, 25 providing context. And almost every single time, this 0726 1 was being used either by me or Elizabeth in meetings that we were having with people with whom we were sharing our vision, and where we wanted to take this 4 company in the next five or ten years. 5 Q Did you understand that Elizabeth Holmes 6 could distinguish between the present and future tense? 7 A Yes. I'm pretty sure she could. 8 BY MS. CHAN: 9 Turn to page ending 733, there's a section of the presentation that's titled "Clinical Data." 11 A Yes. 12 Q Do you see that? And then if you flip through that section, which is a very large section of 13 the presentation, there are a number of correlation graphs, it seems like. 15 16 A Yes. 17 So for instance, if you go to 780. 18 Progesterone? 19 Q Yes. 20 A Yes. 21 It looks like there is a graph for progesterone. What is this correlation that the graph 23 is trying to show? 24 A So again, this is -- I'm going to be out of 25 my league on the science side. But what this shows is 0727 1 that how does a Theranos assay for progesterone correlate with a progesterone assay most likely made by manufacturer call IBL. If you recall, I talked, either yesterday or today, about when you develop an assay, 5 you need a predicate method to show that you're

performing within a certain range of the predicate

```
method. It's never hundred percent.
8
         If you're a hundred percent, then the R
9
   square, the blue would be .99 or 1.0 to be perfect.
10 And if you're not perfect, then the R square goes down.
11
   And if you're missing points on the edges, means the
12 very low and very high values, again, the R square
   shrinks. So many things impact the R square value, but
14 this graph shows how tightly you correlate with
   something else.
15
16
           So in other words, it's comparing the
17 Theranos assay with the same assay on a reference
18 method?
19
       A No. It's -- it's comparing Theranos assay
20 with the assay that was developed by the reference
21 method, by whoever the FDA cleared assay. So not our
   assay running on some -- some third-party device. It
23 will be, for example, in this case, IBL made the
24 machine, if they had a machine, and made the assay.
25 FDA cleared, most likely. And we are comparing to
0728
1 that.
2
          Okay. So the progesterone test and the
3
   results of that test being run on the Theranos method
   versus a reference method?
5
      A I'm sorry I'm being --
6
          Is that it?
7
          -- I'm being a stickler to this, but I want
   to be accurate. Based on my understanding, it's not
   necessarily method. It's assay. So method is more of
   a scientific concept, like you have a method, ELISA is
   a method. Here what we're saying is there is an assay
11
12 for progesterone assay. And you run -- so if I draw
13 blood from you, let's say -- this is a female hormone.
14 And if you draw blood from -- if I draw blood from you
15 and I run 15 samples on Theranos assay, Theranos
16 chemistry, and I run the same exact samples on IBL
   machine using the assay developed by IBL, then this is
17
18 the result we get. This is how we plot.
19
       Q And with respect to the Theranos assay, what
20 devices is that assay being run on?
21
       A I don't know what device. Device is not
22 mentioned here. It may not be device. It may be
    performance off of our chemistry. Pure chemistry in
    some cases, it may be devices. But mostly these are
25 performances of our chemistries.
0729
         BY MR. KOLHATKAR:
1
2
      O You mean like on the bench?
3
      A Yes. In R&D, yes.
4
         BY MS. CHAN:
5
      Q Okay. So -- so I guess I don't really
   understand. So is the device being used --
7
      A
          In some --
8
      O
          -- to conduct these tests?
```

9 In some cases, the device is being used. In 10 most of the cases, my understanding is these are 11 performance level -- raw chemistry performance and how good our chemistry is performing. 12 13 Q Okay. And so where it's -- where it's 14 actually Theranos versus something else, it's just the Theranos chemistries. And how -- how are the 16 chemistries run, are they either run manually or 17 through a machine, right? 18 A Yeah. So what happens if -- if you look at 19 Theranos TSPU, one of the big innovations in the TSPU 20 is we mimic what a human does on a bench. So, for 21 example, if a human takes a sample blood, puts into one 22 tube, mixes into third tube, takes a reagent, puts in the first tube, washes it, incubates it for 30 minutes 24 whatever the protocol is, that's the protocol. 25 When you do that in the machine, the machine 0730 1 does it exactly the same way as a human does it on the bench. It's the same -- same protocol. Now, obviously, the temperature conditions are different so we optimize them. So when you, in our case, when we 5 develop an assay on the bench, means we also have developed the protocol for the -- for the -- on the 6 bench. The final step at that point is to transport all the device, if we had to, in most cases using 9 same -- same a way close to the same protocol. 10 But the bulk of the work, the hard work, is 11 already done in developing the assay because you have 12 to find the reagents, the antibodies, and perform --13 and develop the assay like the chemist do. 14 So in some cases, when you're running the 15 Theranos assay, is it being done on just regular 16 commercially available machines? 17 No. In most cases, I would say it's probably 18 not running on any machines. But in this point, even 19 if it is, in some cases, I think some nucleic acid 20 amplification tests, they run on a very 21 generic machine. Think about like Intel CPU, there's some machines for nucleic acid amplification tests. They act like Intel CPU. Everybody uses them for 24 development. But the key thing, when you're developing 25 a nucleic acid amplification test, is to develop the 0731 1 reagent sequence so you can develop the right test. So basically developing chemistry properly is 2 3 the biggest step in many assays. In some assays that's not the case. But in most cases -- assays, that's the 5 case, in my understanding again from having worked with 6 chemists. 7 O Did you ever explain to potential investors that these correlation charts are actually comparing 9 Theranos assay against reference assays and not 10 Theranos devices against reference devices?

```
11
          Yes. Anytime we talked about a -- a data, we
12 always say we want to share with you our assay
    performances. We never said does the performance of,
14 you know, an entire stack, including software, CTNs.
15 In some cases, CTNs may not be involved. We used to
   always focus on saying is the performance of our assays
17
    compared to predicate methods.
18
          Who did you share that with?
19
       A
           Anytime anybody wanted to walk through the
20 details, and most of the time, it would be people who
    are familiar with the assay development process or
21
22
    experts, like for example, PFM, they had at least one
23
    guy, I think \binom{(b)(6)}{(b)(7)(C)} that I mentioned earlier, \binom{(b)(6); (b)(7)(C)}{(b)(7)(C)}
24
                                            So he would be
25 the kind of guy who would be interested in going
0732
1
   through this and he would share with us.
          So you told (b)(6); from PFM that this was
2
3
   showing Theranos' assays versus reference assays --
4
          That's correct.
5
      O
          -- and not Theranos' devices versus reference
   devices?
6
7
      A Correct. Yeah. We didn't use to -- use
   device names, so I would say -- I don't -- let me
9
   actually backtrack.
10
          I don't remember exactly what word -- what I
11
    said, but if he had the conversation with Alexei on
    assays, then we would always say this is the
12
13
   performance of our assays versus predicate method.
14
       Q
           So you don't remember having a conversation
15 with him?
16
       A
          I don't remember an exact conversation with
17 him.
18
          BY MR. KOLHATKAR:
          I'm going to hand you a couple of documents.
19
20
           You want me to put this away?
21
           Sure. Thank you.
22
                   (SEC Exhibit Nos. 257 through
23
                   259 were marked for
24
                   identification.)
25
          BY MR. KOLHATKAR:
0733
         First I'll hand you 257. And I start this
1
   process while you're rubber banding that one. Hand you
   258 the same time, and 259 as well. Just while you
4
   review these.
5
      Α
          You want me to go through all three of them?
6
          Let me read them for the record and we can go
   through them one by one. Exhibit 257 is a document
   Bates stamped THPFM0000868711. Exhibit 258 is a
   document Bates stamped THPFM0000868708. And 259 is a
10
   document Bates stamped THPFM0000878985.
11
          Why don't we start, do you recognize Exhibit
12 257?
```

13	Α	I do.
14		What is 2 Exhibit 257?
15	À	It's e-mail chain between myself and (b)(6); (b)(7)(c)
16	and the second of the second	and then I forwarded a draft of that, my
17	and then I for warded a draft of that, my	
18	A 12 12 12 12 12 12 12 12 12 12 12 12 12	
19	_	nize Exhibit 258?
20	A	
21		om Elizabeth Holmes to me.
22	250	And then is the top e-mail chain another
23	1.0.0	to her, still on 258 here?
24	A	
25	(-7-55)	그리고 살아 아이들이 그리고 있는 경영이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이
25 agree. That's still my e-mail to her. 0734		
	127	And 250 does that look like you forwarding
1	Q	, ,
2		er message to her?
3	A	It seems like it, yes.
4	, Q.	Just just to go through the timestamps
5	here, it looks like the first one is 257 is time	
6	stamped Wednesday Wednesday January 22nd at 3:50	
7	p.m.	mail control proteins and a
8	10	Do you see that?
9	Α	Yes, I do.
10	C. C	258 is time stamped Thursday, January 23rd at
11	12:51	
12	A	I do.
13	Q	And 259 is time stamped same day at 1:02 a.m.
14	Do yo	ou see that?
15	Α	I do.
16	Q	What do you understand these documents to be?
17	A	It seems like it's an e-mail response that
18	I'm go	oing to send to (b)(6); (b)(7)(C) And I'm sending her
19	drafts	to get her feedback or or maybe I was talking
20	to her	when I was going to her office and she would
21	give me something to add or remove and I would based on	
22		
23	Q	In other words, you're discussing with Ms.
24		es what information you will provide (b)(6); (b)(7)(C) ?
25	Α	
073	35	
1	Q	And and that potentially accompanied by
2		son conversations with her?
3	A	Potentially, yes.
4	Q	Do you recall having in-person conversations
5		Is. Holmes about this e-mail thread?
6	A	I don't recall.
7	Q	I want to focus your attention to Exhibit 257
8	~	second long paragraph there, with speaking
9	with.	second long paragraph more, with speaking
10	A	Yes.
11	O	It says, "Speaking with you at HG won't be
12		ble, unfortunately, as that will be a negative for
13	•	
14	A	
14	A	1 65.

15 What were you -- what were you proposing to 16 tell Mr. Grossman here? So if I recall correctly, (b)(6); (b)(7)(C) 17 18 asked us to speak with USG, United Healthcare and 19 Walgreens. And I had discussed with Elizabeth that we 20 didn't think it was necessary. We were not -- we 21 didn't want to take a favor from either Walgreens or 22 United Health. And so this is what I was basically 23 referring to. 24 The next sentence, it says, "We can walk you 25 through our R&D lab where we use a large number of our 0736 1 devices, if that becomes the last remaining item on the 2 list that you" -- "that you check off. Ideally, it would be just yourself and you can confirm that you had Hep C shots administered on you, as this is a BSL-2 5 facility, but we can work through this." 6 Do you see that? 7 A I do. 8 0 What -- what are you responding to here? 9 I think he had sent me an e-mail. If you look at the last line here, "Lastly, we would like to 10 see the lab analyzing any action, if that's possible." And somewhere in here I think he had said just a 12 13 checklist item. I forgot where it was. I was just 14 repeating his -- his comment here. So this is what I'm 15 responding to. Okay. And turn to the next page. 16 O 17 Same e-mail? 18 Q I'm sorry. To the next document, Exhibit 19 258. 20 Α Should I put this away, the first one? 21 Q You know, it might be helpful to keep it out. 22 A Okay. 23 The -- again, the last e-mail in the chain, 24 this is from you to Ms. Holmes at 12:51 a.m. on January 25 23rd, it says, "If walking through our lab becomes the 0737 last remaining item on the list, then we can walk one 1 person, perhaps yourself, through our BSL R&D lab where we use a large number of our devices." 4 Do you see that? 5 A I do. 6 Q In your mind, what was the reason for the proposed change in language? 8 I don't remember. It looks pretty similar to 9 me. 10 Do you know why you were sending another 11 version of this to Ms. Holmes? 12 A I may have reflected on what I wanted to do 13 with him. I don't remember why I'm sending another 14 version. Sometimes I would think and send something and then I will come back and think that maybe my 16 previous version was not good. I'll modify and send it

17 again. But I don't know what's going on over here. 18 Q Turning to the last exhibit, Exhibit 259. 19 Again, this is another draft. It looks like this one is from Ms. Holmes to you. There's no message at the 21 top. 22 Α Okay. 23 Is it possible that she's editing your 24 message below? 25 It's possible. I cannot tell what she 0738 1 edited. 2 Q Okay. Why don't we look at the -- that same sentence. "If walking through our lab becomes the last remaining on the list, then we can walk one person, 5 perhaps yourself, through our BSL-2 lab where we are running banks of our devices." A Yes. 7 8 O Do you see that? 9 Α Yes. 10 O Do you -- do you know if that's an edit you made or she made? 11 12 I wouldn't be able to tell. 13 Did it appear in this version, R&D has been 14 removed; is that right? 15 Α Yes. Did (b)(6); (b)(7)(C) 16 Q understand the BSL-2 lab 17 meant the R&D lab? 18 No. The BSL-2 is a designation for a lab. 19 It could be R&D or CLIA. BSL-2 is just saying what is 20 the safety level of the lab. It doesn't have to do 21 anything with R&D or CLIA. What about banks of our devices, do you have 22 23 any idea why large number of our devices change to 24 banks of our devices? 25 She liked using this term because of the 0739 1 comment I had made earlier that we used to call our devices as racks and blades. So in data center, we usually use the banks of blades. So I think she was just refining the term. There was nothing else that's 5 different between these two. Q Did you have any concern that by removing the 6 reference to R&D, you were giving the impression that 7 you -- that you were using banks of devices beyond the R&D setting? 10 A No. 11 O Why not? Because when I walked (b)(6); (b)(7)(C) 12 lab, I told him explicitly, the conversation we had was 14 R&D lab. And I walked him through the lab. I 15 introduced him to people or the -- I told him this is where we're doing nucleic acid amplification test, and 17 I pointed out to him where do development of different 18 chemistries.

19 Okay. So but do you remember when that tour Q 20 took place? A Yeah. 21 22 Sometime after this? 23 A It must have been after this, but I remember 24 the tour. 25 Did Theranos ever use banks of its devices in 0740 1 its CLIA lab? 2 A Yes. 3 Which one? Which devices? 4 3.0s, 3.5s. Basically what happened was, if you put -- we had a removable rack where you can just put devices. And it had a big power brick at the back. You could just move the entire trolley back and forth. And we were using those in R&D and CLIA, both places. 9 Q So at this time, January 2014, where was the 10 R&D lab located? 11 A In Palo -- 1601 Palo Alto. 12 Q Where was the CLIA lab? 13 A 1601 Palo Alto. 14 Was the Newark facility open at this time? 15 We had a Newark facility open. We were doing 16 manufacturing. I'm not sure if we were doing CLIA lab over there or not. I'm not sure if the CLIA had moved 18 there or not. 19 Q Okay. So was part of the CLIA lab in Palo 20 Alto then, or you're -- you're not sure where it was exactly at this time? 21 22 A I wasn't sure exactly -- I wasn't sure 23 exactly where it was at the time. 24 MR. KOLHATKAR: Take a quick break at 5:21 25 p.m. 0741 1 THE VIDEOGRAPHER: Off the record. 2 (A brief recess was taken.) 3 MR. KOLHATKAR: Back on the record at 5:32 4 p.m. 5 BY MR. KOLHATKAR: 6 Q Mr. Balwani, just to confirm, you didn't have 7 any substantive discussions with the staff during the break: is that correct? 9 A That is correct. 10 In the 2013 time frame, did you tell PFM that 11 Theranos had validated 1,000 CPT codes? 12 A No. 13 Did you tell PFM or anyone from PFM that 14 Theranos was vertic -- vertically integrated with 15 respect to its analyzers and chemicals? 16 With respect to analyzers and -- I think I 17 answered that question earlier. It's a very broad statement. If you include microprocessors and 19 ingredients into chemistry like salt, the answer is no. 20 But in general, the fact that we were manufacturing our

21 own devices, and reagents and chemistry, the answer 22 would be yes. 23 Theranos wasn't vertically integrated with 24 respect to the third-party commercial analyzers? 25 No, of course not. 0742 1 Did you ever hear Elizabeth Holmes say that 2 Theranos had -- had developed and validated 1,000 CPT codes? 4 A No. 5 O Did you ever tell anyone from PFM that -that Theranos had been operating on funds from contracts since 2006? 8 A No. 9 Q Did you ever hear Elizabeth Holmes say 10 something like that? A I don't recall. 11 12 Did you -- did you tell anyone from PFM that 13 the Theranos platform can do 1,000 to 1,050 CPT codes? 14 A No. 15 Did you tell them you had a tech solution to Q 16 1300 CPT codes? 17 A I don't recall that one. 18 Do you recall Ms. Holmes saying anything like 19 those last two statements? 20 A I don't recall. Did you tell anyone from PFM that traditional 21 22 labs need large buildings, labor and equipment, and 23 that Theranos can do same in 200 square feet? 24 If that -- I don't remember saying that, but 25 I think I answered earlier that if we were talking in 0743 the context of our devices, then we used to -- we used 1 as an example, but I don't know if I said that to PFM 2 3 or not. 4 And, you know, I'm just going to try and run 5 through some statements whether or not you made them, I'm going to ask you not to speculate. But just if you 7 have a memory, yes or no or you don't remember --8 A I understand. 9 O -- I'd appreciate it. If there's an 10 explanation, obviously give it, I just --11 A Yes. 12 Q I don't want you to speculate about what you 13 might have said. 14 A I appreciate that. 15 Did you say that Phase 1 involved providing 16 any test with a drop of blood? 17 A No. Q Did you ever hear Elizabeth Holmes say 18

Did you say -- did you tell PFM that Theranos

22 wanted ten patients per day in its Walgreens stores?

19 something like that?

A No.

20

23 Without context, I would say I don't remember Α 24 or --25 Q Did you hear Elizabeth Holmes use ten 0744 1 patients per day as a goal? 2 A I don't think -- I don't recall. I don't 3 think so. 4 Q Did you tell PFM that Theranos' is break-even 5 point would be to have 15 patients per day per store? 6 We may have discussed that. But again, there 7 would be context around it. But I don't remember specifically if I use exactly that sentence. 9 O I guess what would be the important context 10 around that break-even number? 11 If in the context of a model we were looking at what we thought was break even and what volume, those are -- like I said, with PFM, I used to have kind of brainstorming discussions. So it's possible that I probably said under this model -- this scenario is 15 about 15 patients a day. 16 17 Okay. In -- after the PFM invested, you 18 continue to have conversations with PFM; is that 19 correct? 20 A Yes. Was that primarily with (b)(6); (b)(7)(C) 21 O 22 Primarily, yes. 23 Generally, what were the purpose of those 24 calls or meetings? (b)(6); (b)(7)(C) used to call. And he wanted to 25 0745 1 meet and catch up. I always thought they were, you know, relationship-building meetings so that was the 3 gist of it. Q In July of 2014, did you tell (b)(6); (b)(7)(C)4 that the company was performing 70 to 75 percent of 5 6 its tests at Walgreens on finger stick? 7 Was performing? I don't recall saying that. Did you tell (b)(6); (b)(7)(C) 8 that the company was capable of performing 70 to 75 percent of this 10 tests at Walgreens on finger stick? 11 A I don't recall specifically. It's possible 12 that I said that, but I don't recall specifically. 13 Would that be a true statement at that time? 14 The number probably was even higher, but I 15 would say, yes, that would be a true statement. 16 Is that because, again, we talk about those 17 bordering patterns yesterday. 18 Correct. Α 19 So in other words, Theranos could do 70 to 75 Q percent of finger stick at the time, but may not 21 actually because of the --22 Ordering patterns, yes, correct. 23 Q Or volume, other the reasons you gave? 24 Example I gave of 40 patients, yes.

25 Did you tell (b)(6); (b)(7)(C) in July of 2014, 0746 1 that Theranos needed to have nine to ten patients per day before Walgreens would roll out to other locations? 3 A I don't recall. I don't recall the context 4 either. Q Did you tell (b)(6); (b)(7)(C) 5 that -- that you would need to have finger stick on nine out of ten patients at Walgreens before they roll out to other 8 location? 9 That was actually -- I don't know if I recall I said it to him or not. At one point, that was our 11 internal goal. 12 Q When was that your internal goal? 13 In the first half of 2014. I think I also shared with you the example of scaling at Walgreens 15 around finger sticks and sending the venipuncture patients in 24-hour stores. So that's what -- what our 17 internal goal and that's what I was referring to. Q Did you tell -- did you tell (b)(6); (b)(7)(C) 18 19 September of 2014, that Theranos was -- that -- that 20 Walgreens had committed to 500 stores in fiscal year 21 2015? 22 Walgreens had committed? I don't recall the Α exact words. But again, I would like to see the context of what that was. 25 Did you tell (b)(6); (b)(7)(C) in September 2014, 0747 1 that Theranos was close to break even? 2 A No. 3 O Would that have been true at the time? No. Again, with that explanation that I gave 5 earlier, if you include the innovation payment then 6 maybe, but otherwise not. 7 Q Right. 8 So other than that sort of one payment that 9 you -- set aside a deferred revenue that you were unsure how it was going to be treated, it would --A Correct, yes. Because I think (b)(6); (b)(7)(C) 11 12 knew we were in 40 stores, we just launched the 41st 13 store in September 2014. 14 Q Do you recall having conversations with 15 individuals from BDT Capital in September or October of 16 2014? 17 A Yes. I think we talked about that earlier. 18 Did you tell anyone from BDT that Theranos's 19 machine costs 30 to 45 -- 35 to \$40,000 compared to a 20 million dollars for their competitor suppliers? 21 There's a greater context behind that. If I 22 made that statement, there's an explanation behind it. 23 Why don't -- do you recall making that 24 statement? 25 I don't recall it. Α 0748

- What was -- what was the greater explanation of that statement be? 3 A We used to compare the capability of our device and what are the different tests we can do. And 5 so if you were to assemble the lab to be able to do a test that we were able to do on our device, the cost would be much higher. But I don't think I said million. It may have been target number, like, it'd be huge like a million dollars or something like that. 10 Were there other numbers that you used 11 rhetorically when you were talking to BDT or other 12 potential investors? 13 A I don't recall. But -- sorry. I think -- I 14 don't remember if I said million dollars or not, but I 15 would say if you were to assemble the lab with all 16 these equipments, it would cost a lot more money. 17 Q Was that an aspirational statement or a 18 factual statement at the time? 19 A I believe that to be a factual statement. 20 Did you tell anyone from BDT that all --21 Sorry. If I made the statement, it would be 22 factual, yeah. 23 Q Did you tell BDT that Theranos can run all 24 their blood tests on one machine using the chemicals at one consumable cartridge? 0749 1 A Run all of their tests. 2 All of Theranos' tests on one machine using O 3 one consumable cartridge? 4 A No. 5 Q Would that have been an accurate statement at the time? 7 Without additional context, I would say no. 8 Q Did you tell BDT that Theranos was vertically integrated? 10 It will be the similar answer that I gave 11 earlier, that if you are assuming that we're talking 12 about the big components, the chemistry binders, some of key reagents, device, manufacturing of the device, 13 14 consumerables, the CTN, the answer would be yes. But 15 if you include the smallest possible thing, like salt and CPUs and other things, the answer would be no. 16 17 Did you tell anyone from BDT that --18 Sorry. I don't recall. A 19 Did you tell anyone from BDT that Theranos 20 buys aluminum, plastic and then develops the hardware 21 from there? 22 Α I don't recall saying that to BDT. 23 Did you ever hear Elizabeth Holmes say 24 something like that? 25 To BDT? I don't recall.
- 0750
  1 Q Do you recall her saying that to any other 2 investors?

3 I don't recall saying to any other investors. 4 In October 2014, was Theranos trying to get a 5 government contract for Ebola testing? A I don't know if we were trying to get a government contract. I think we had submitted our Ebola assay to FDA for EUA, emergency use authorization clearance, but I don't recall if there was a contract 10 that was entered into or not. 11 Q Did you ever tell BDT, or any prospective 12 investors, that Theranos is about to sign \$120 million 13 contract for Ebola? 14 A With who? 15 With the government. 16 A No. I don't recall saying that. Would that have been a true statement at the 17 O 18 time? 19 A I don't recall. I mean I -- I don't think 20 so. 21 Q Do you recall Elizabeth Holmes ever 22 describing a potential government contract for Ebola 23 testing? A No. 24 25 Q Did you ever tell BDT that KPMG was Theranos' 0751 auditor? 1 A I don't recall. 2 3 Q Did you ever hear Elizabeth Holmes say that? To BDT again? I don't recall. Q Did you ever tell BDT that the audits have details in their footnotes on certain nonpublic contracts so that there was some sensitivity to 8 sharing them with BDT? 9 A The audited financials? 10 Q Correct. A I don't recall saying that. 11 12 O Were there audited financials in October 13 2014? 14 A No. 15 0 Did you ever hear Elizabeth Holmes make that 16 comment? 17 A No. 18 Did you tell BDT that Theranos gets to decide 19 on the timing of the Walgreens rollout? 20 A I don't recall. 21 Q Would that have been a true statement at the 22 time? 23 A Yes. We had the -- we had control over the 24 rollout, if we wanted to proceed or not. But obviously 25 there were things Walgreens controlled also. 0752 1 Q What were those things? 2 Construction on the stores. We were at --3 that was a time frame and when we were renegotiating

4 the contract. So things would have changed on what was

in the control and what was not. But in general, at that point, either training the technicians or building out the stores for us would be the fundamentally --7 8 fundamental things. 9 Q When discussing the model with BDT, did you 10 tell BDT that you were fairly confident in the 2014 numbers because you were already in October? 12 A I don't recall. 13 Q Do you recall Elizabeth Holmes saying 14 anything like that? 15 A I don't recall either. 16 Did you -- did you tell BDT that for 2015, 17 you might -- you think there might be plus or minus 30 18 percent variance from what the model was reflecting due 19 to execution risk? 20 I don't recall saying that. 21 Do you recall Elizabeth Holmes saying 22 anything like that? 23 A I don't. 24 Q Do you recall telling BDT that the model 25 should reflect 135 Safeway stores for January in 0753 1 northern California? 2 The model? I don't recall saying that. 3 Was Theranos planning on opening 135 centers at Safeway in January 2015 as of October 2014? 5 Α No. Did you tell BDT, in October of 2014, that 6 Theranos was currently picking up samples and running 7 them -- running them -- picking up sample from hospitals and running them in a CLIA lab? 9 10 A No. 11 Would that have been a true statement at the Q 12 time? 13 A Can you finish the sentence? The question 14 was hospitals and what? 15 Q Sorry. I want to be clear. In October 2014, did you 16 17 tell BDT that Theranos was picking up samples from 18 hospitals and running them in its labs? No, I don't recall saying that. 19 20 Would that have been an accurate statement at Q 21 the time? 22 Α Not to my knowledge, no. 23 Q Was Theranos picking up samples from 24 hospitals in October 2014? 25 Not at that point. 0754 1 O When did it start? 2 I don't think we ever did. 3 Did you ever hear Elizabeth Holmes say something like that? 5 No. I don't recall. A 6 Did you ever tell any investor or potential

investor that, in October 2014, that Theranos was 30 days away from an announcement of a contract with the 9 Department of Defense and expecting to launch in 10 airports in November? 11 Α No. 12 O Would that have been a true statement at the 13 time? 14 A No, not to my knowledge. 15 Did you ever hear Elizabeth Holmes say O 16 something like that? 17 A No. 18 Q Did you ever tell anyone from BDT or any 19 other potential investors that Theranos expected to 20 receive \$50 million from its upfront contract at 21 airports? 22 A I don't recall saying that. 23 Q Would that have been a true statement at the 24 time? 25 A Not to the best of my knowledge. 0755 1 Q Did you ever hear Elizabeth Holmes say anything like that? I don't recall that either. Did you tell any -- anyone from BDT or any 4 other potential investor that, historically, Theranos had generated 30 to \$60 million revenue from pharmaceutical services? 8 A No, I -- I don't recall saying that. 9 10 Q Would that have been an accurate statement at 11 the time? 12 A No. Not to the best of my knowledge, no. 13 Did you ever hear Elizabeth Holmes say 14 something like that? 15 I don't recall her saying that. 16 Q Do you recall discussing the Fortune article 17 with BDT? 18 A No, I don't recall. 19 Did you ever hear Elizabeth Holmes say she 20 did not regret the Fortune article to individuals from 21 BDT? 22 A No, I don't recall. 23 Do you recall meeting with individuals from 24 the Fremont group in 2014? 25 Not specifically. If I -- if you place a 0756 1 name, maybe I'll be able to narrow it down. 2 Q I guess, do you remember anyone affiliated with Battelle's private family office meeting with individuals from Theranos in the fall of 2014? 5 A I don't recall. Do you know -- do you know anyone named (b)(6); 6 Q 7 (b)(6); ? A I heard the name, yes.

9	Q	Have you met $(b)(6); (b)(7)(C)$ ?		
10	A	I don't recall.		
11	Q	Do you know anyone named $(b)(6)$ ; $(b)(7)(C)$ or $(b)(6)$ ; $(b)(7)(C)$		
12	(b)(6); (b)(7)(C)	?		
13	A	I heard the name (b)(6); (b)(7)(C)		
14	Q	Who is (b)(6); (b)(7)(C) ?		
15	À	He was one person who had visited us. I		
16	forgot	which group he was with. And I I think I		
17	shared model with him. I have kind of a vague memory,			
18	but I don't remember specifically. I don't think I			
19		nuch time with him.		
20	0			
21	with h			
22	A	I have a vague memory, but I could be wrong		
23	about 1	회사 아름이 아름이 살아가는 아니는 아무리 아름이 아름다면 그리고 아름다면 아니는		
24	Q			
25		ou felt good about the 2014 projections?		
075		ou left good about the 2014 projections.		
1		2014 projections? I don't recall saying		
2	that.	2014 projections? I don't recall saying		
3	mat.	When do you remember discussing model with		
4	(b)(6); (b)(7)(C	When do you remember discussing model with		
5				
		I think I discussed the model. If I gave it		
6		I would always give him the background to it,		
7		on't remember specific comment like that.		
8	2.12	Do you remember saying that you felt		
9		ent in the 2014 numbers that the model reflected?		
10	A	I don't recall saying that.		
11	Q	Did you tell (b)(6); (b)(7)(c) that Johns Hopkins		
12		d all of Theranos's SOPs?		
13	Α			
14	Q	AND SECTION OF THE SECTION OF THE PERSON OF		
15		on for clarity.		
16		Did you tell (b)(6); (b)(7)(C) that Johns Hopkins		
17	review	red Theranos's SOPs?		
18	Α			
19	Q	Did Theranos did Johns Hopkins review		
20	Therar	nos's SOPs?		
21	Α	There were many SOPs in patient service		
22	center	when we launched with Walgreens that that		
23	Johns	Hopkins had reviewed and approved.		
24	Q	And did they continue to review and approve		
25	them t	hroughout the course of		
075	58			
1	Α	No, they did not continue. When we started		
2		on't remember how many SOPs were there, but		
3		rere quite a few that they had reviewed and		
4	approv			
5		Did you tell (b)(6); (b)(7)(C) that Theranos's goal		
6	100	have 30 patients per store per day at Walgreens?		
7	A	I don't recall saying that, but it wasn't in		
8	the mod	del. So		
9		Did you tell (b)(6); (b)(7)(C) that Theranos would		
10		70 retail locations by the end of the year?		
		·		

11	A	
12	Q	Do you recall telling (b)(6); (b)(7)(C) that
13		nos could be in as many as 300 locations by the
14		f the year, 2014?
15	Α	
16	Q	Did you tell (b)(6); (b)(7)(C) that you you were
17		ng on starting on the Safeway rollout in January
18	of 201	5 let me rephrase that.
19		In October 2014, did you tell (b)(6);(b)(7)(C) that
20	you w	ere planning on rolling out at Safeway in January
21	of 201	5?
22	Α	Don't recall that.
23	Q	Do you recall saying that you were planning
24	on rol	ling out in 300 Safeway locations in January
25	2015?	
075	59	
1	Α	I don't. I don't recall that.
2	Q	Do you recall meeting with individuals from
3	the De	Vos family?
4	A	I recognize the name, but I don't know if I
5	met wi	$(th^{(b)(6);(b)(7)(C)}$ or not. I don't
6	recall.	
7	Q	Did you ever speak with anyone from their
8	_	office?
9	A	I think I had a phone conversation with
10		pody. I don't remember who it was, though.
11	O	Do you recall telling does the name
12		refresh your recollection?
13	manne	Tenesh your reconcention.
14	Α	No.
15	Q	(b)(6); (b)(7)(C)
16	Ă	Honestly doesn't.
17	Q	Do you recall telling (b)(6); (b)(7)(C)
18	(b)(6); (b)(7	that Theranos uses its own analyzer
19	equipi	
20	A	I don't recall that specific comment.
21	0	Do you recall telling (b)(6); (b)(7)(C)
22	(b)(6); (b)(7)	
23	analyz	zer equipment?
24	A	I don't recall, but that would be a
25		rsation we would have with them because we did.
076		isation we would have with them because we did.
1	0	Did you ever tell them Theranos manufacture
2		ts own analyzer equipment?
3	A	No, I would not.
4		BY MS. CHAN:
5	Q	Did Ms. Holmes make that statement?
6	A	Not to the best of my knowledge.
7		BY MR. KOLHATKAR:
8	Q	Did you tell (b)(6); (b)(7)(C) that Theranos
9	has no	
10	A	Who is (5)(6); ?
11	Q	(b)(6); (b)(7)(C)
12	A	I don't recall saying that.
14	11	1 don troum out mg that.

- 13 Q Would that be a true statement in -- in the 14 fall of 2014, that Theranos had no debt? 15 A I think in general that would be true because 16 we didn't borrow money, and -- in general. Except for, 17 I mean, we must have discussed the null with Walgreens 18 with them. But in general, we -- we -- we didn't like 19 borrowing money to grow our business except for minor 20 leasing from machines here and there. So I think in 21 general, it would be true. 22 Q You understood that the note to be -- was a 23 form of debt? 24 A It was form of debt to be converted into 25 equity, but it was -- there was a specific reason why 0761 1 that note existed. It wasn't strictly that we were borrowing money from Walgreens. It was more like they had given this note to us so they can convert it to equity. If not, we return it back. 5 Q Do you remember explaining that to anyone from the DeVos family office? 6 7 No. I don't recall explaining that. 8 Do you recall telling (b)(6), (b)(7)(C) 9 (b)(6); (b)(7)(C) that you expected to be in 300 Safeway 10 locations in 2015? 11 I don't recall. 12 Did you tell (b)(6); (b)(7)(C) (b)(6); that Theranos had more than \$500 million in 13 14 demand for the C-2 round? 15 A In demand? 16 In other words, there was more individuals 17 expressed an interest to -- to provide Theranos with more than \$500 million? 19 I don't particularly remember that. 20 Did Theranos turn down any investors for the Q 21 C-2 round? 22 I think BDT had approached us to invest. And 23 they wanted to do a structured deal and we didn't want to do that. So we just -- we had a discussion at the 25 board meeting where I -- we discussed that, we 0762 1 recommended we not pursue that. And we put an end to 2 that. 3 Q And were there -- were there any other investors that Theranos declined to work with for that 5 C-2 round? 6 A I don't remember. We engaged with investors very selectively. So if we talked with investors, it was some purpose in mind already. So I would say, in general, no, but there may have been others. 10 Do you recall any -- Theranos turning down 11 any money from any private equity companies for C-2
- 13 A I don't recall. I'm not sure how to -- how 14 private equity -- BDT was only one. I don't know if

12 round?

15 that was a private equity or not, but otherwise I don't 16 recall any others. 17 Q Did you ever hear Elizabeth Holmes state that 18 Theranos was turning away private equity money for the 19 C-2 round? 20 A I don't recall her saying that. 21 Do you recall -- or we talked a little bit 22 yesterday about Madrone and (b)(6); (b)(7)(C) Do you 23 recall -- generally recall that? 24 Yes. Walgreens. Yes. 25 Did you tell (b)(6); (b)(7)(C) that Theranos runs 0763 1 every test with the same platform? 2 I don't recall saying that. Did you tell (b)(6); (b)(7)(C) 3 there would not be a need for a different machines or collection 5 tubes on the Theranos platform? 6 Say that again. I'm sorry. I missed that. Did you tell (b)(6); (b)(7)(C) 7 that there would not be a need for different machines or collection tubes on the Theranos platform? 10 No, I don't recall saying that. 11 Would that have been a true statement? 12 I actually don't understand the comment, 13 which is why I don't recall saying it. Yeah. I don't 14 understand what the whole sentence means. I guess, would it be a true statement in 15 16 September 2014 that Theranos ran every test on the same 17 platform? 18 Technically speaking, yes. But same platform doesn't mean same machine. We had a platform in our 19 20 lab that we were using, which is why I think this is 21 kind of a confusing statement. 22 What did you understand "platform" to mean? Q 23 A Platform, in general, means as set of 24 technologies. So not necessarily, for example, IOS is 25 one platform. And it runs on multiple devices. So 0764 1 it's a very vague statement, in my opinion. 2 Q Did you understand that Theranos platform to 3 include unmodified commercial devices? 4 In my mind -- in our minds, yes. 5 Did you explain that to any investors? 6 A No. I think I shared that we -- there was a trade secret that we were not sharing. 8 The use of unmodified devices? 9 Sorry. Unmodified? Α 10 O Yeah. No. I mean, when we talked about it, like I 11 12 said yesterday, it was an uninteresting fact, but 13 otherwise, no. In general, no. 14 So, in your mind, was Theranos's use of 15 unmodified third-party analyzers part of the Theranos platform? 16

```
17
       A
          No.
         Did you tell (b)(6); (b)(7)(C)
18
                                 that Theranos
19 expected to be in 300 Walgreens stores by the end of
20 2014?
21
       A 300 stores by end of 2014? I don't recall.
22
                  (SEC Exhibit No. 260 was
23
                  marked for identification.)
24
          BY MR. KOLHATKAR:
25
          I'm going to hand you a document I'll mark as
0765
1
   Exhibit 260.
2
      A Thanks.
3
         MR. COOPERSMITH: Before we go further, how
   much further? I -- I just think that we're getting a
   little tired here and it's been a long day, two days.
   So I mean, are we talking five minutes, ten minutes?
         MS. CHAN: Off the record.
8
         MR. COOPERSMITH: It's fine.
9
         MR. KOLHATKAR: Let's go off the record at
10 5:59 just so we can give the court reporter a break.
11
         THE VIDEOGRAPHER: Okay. Off the record.
12
         (A brief recess was taken.)
          MR. KOLHATKAR: Back on the record at 6:06
13
14 p.m.
15
         BY MR. KOLHATKAR:
       Q Mr. Balwani, we didn't have any substantive
16
    discussions during the break; is that correct?
17
18
       A That's correct.
19
          MR. KOLHATKAR: Mr. Balwani, given the time,
20 we're going to adjourn testimony today pending a future
    date after discussion with counsel. Thank you very
22
   much for your time these last two days. We really do
23
   appreciate it.
24
         THE WITNESS: Thank you also for your time.
25
          MR. KOLHATKAR: Off the record at 6:07 p.m.
0766
1
         THE VIDEOGRAPHER: Off the record.
2
         (Whereupon, at 6:07 p.m., the examination was
3
   concluded.)
                 * * * * *
4
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12
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20
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0767
1
            PROOFREADER'S CERTIFICATE
2
   In The Matter of: THERANOS, INC.
3
4 Witness:
                  Ramesh Sunny Balwani
5 File Number:
                     SF-04030-A
                 Thursday, August 10, 2017
6 Date:
                   San Francisco, CA
   Location:
8
         This is to certify that I, (b)(6); (b)(7)(C)
9
   (the undersigned), do hereby swear and affirm that the
10
    attached proceedings before the U.S. Securities and
12
    Exchange Commission were held according to the record
    and that this is the original, complete, true and
    accurate transcript that has been compared to the
   reporting or recording accomplished at the hearing.
16
17
18 (Proofreader's Name)
                              (Date)
19
20
21
22
23
24
25
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19

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0769
   THE UNITED STATES SECURITIES AND EXCHANGE COMMISSION
2
3
   In the Matter of:
                         )
4
   THERANOS, INC.
5
                             ) File No. SF-04030-A
6
7 WITNESS: Ramesh "Sunny" Balwani
8 PAGES: 769 through 957
9 PLACE: 44 Montgomery Street, Suite 2800
         San Francisco, California
10
             Thursday, September 7, 2017
11 DATE:
12
13
       The above-entitled matter came on for hearing,
14 pursuant to notice, at 12:28 p.m.
15
16
17
18
19
20
21
22
23
24
     Diversified Reporting Services, Inc.
25
         (202) 467-9200
0770
   APPEARANCES:
1
   On behalf of the Securities and Exchange Commission:
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11
12
      (b)(6); (b)(7)(C) @sec.gov
      (b)(6); (b)(7)(C) @sec.gov
13
      (b)(6); (a)sec.gov
14
15
16
17
18
19
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21
22
23
24
25
0771
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```
APPEARANCES(CONTINUED):
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20
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                  VIDEO OPERATOR
21
22
23
24
25
0772
             CONTENTS
1
2 WITNESS:
                             EXAMINATION
3 Ramesh "Sunny" Balwani
                                    774
4
5 EXHIBITS
                DESCRIPTION
                                    IDENTIFIED
6 268 Commission Subpoena
                                     774
8
9
10
11
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0773
1
          PROCEEDINGS
2
        THE VIDEO OPERATOR: Here begins DVD No. 1 in the
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Volume 3 testimony of Ramesh Sunny Balwani in the matter
   of Theranos, Inc., in the U.S. Securities and Exchange
   Commission, File No. SF-04030-A.
5
         Today's date is September 7th, 2017. Time on
6
7
   the video monitor is 12:28.
         Video operator today is (b)(6); (b)(7)(C)
8
                                             employed
   by Behmke Reporting and Video Services, Inc., 160 Spear
9
10 Street, Suite 300, San Francisco, California.
         MR. KOLHATKAR: Great. And we are on the record at
11
12 12:30 p.m. on September 7th, 2017.
13
         I'm Rahul Kolhatkar. With me are Michael
14 Foley, Marc Katz, and Monique Winkler. Joining us in a
15 minute will be Jessica Chen. We're all officers of the
16 Commission for the purposes of this proceeding.
          We are today resuming the examination of -- of
17
   Sunny Balwani, which was adjourned on August 7th -- I'm
18
19 sorry -- on August 10th, 2017.
20
         Would counsel please identify themselves.
21
         MR. COOPERSMITH: Yes.
22
         Jeff Coopersmith from Davis Wright Tremaine
23 representing Mr. Balwani.
24
         MR. McKAY: John McKay, also Davis Wright Tremaine,
25 representing Mr. Balwani.
0774
1
         MR. TOPINKA: Jim Topinka, same firm.
         MR. KOLHATKAR: Testimony today is pursuant to a
2
3
   Commission subpoena, which I've marked as Exhibit 268.
4
            (SEC Exhibit No. 268 was marked
            for identification.)
5
6 Whereupon,
7
             RAMESH "SUNNY" BALWANI,
   was re-called as a witness and, having been previously
   duly sworn, was examined and testified further as
10 follows:
11
               EXAMINATION
12
         BY MR. KOLHATKAR:
13
      O Mr. Balwani, have you had a chance to review
14 Exhibit 268?
15
      A Yes.
16
      Q Do you understand that you're appearing here
17 today pursuant to Exhibit 268?
18
      A Yes.
19
      Q Mr. Balwani, do you understand that you remain
20 under oath?
21
      A I do.
22
         MR. KOLHATKAR: I'd also like the record to reflect
23 that a copy of the formal order of investigation in this
24 matter, as well as the supplemental formal order, are
25 available to counsel and the witness during the course
0775
1 of this examination.
2
         BY MR. KOLHATKAR:
3
      Q Since we adjourned on August 10th, other than
4 your conversations with counsel, have you had any
```

```
conversations with anyone about the substance of your
   testimony before the SEC?
7
      A
         No.
8
          So, Mr. Balwani, when we met last time, we
   discussed Theranos's relationship with Walgreens and the
10 innovation fee.
11
          Do you recall that generally?
12
       A Yes.
         I wanted to just ask you a couple more
13
14 questions about that to -- to help clarify the -- your
15 understanding of the innovation fee as of 2014.
16
       A Okay.
17
       Q
          So I'll hand you what's previously been marked
18 as Exhibit 49.
19
          Do you recognize Exhibit 49?
20
       A I do.
21
       0
          What is it?
22
          This is the master services agreement executed
23 between Theranos and Walgreens, actually amended and
24 restated, in 2012, June 2012.
25
          Okay. So it was amending an earlier agreement
0776
1 that Theranos had previously had with -- with Walgreens?
2
          Correct. We had an original agreement I think
   we had signed in 2010, sometime in -- during the summer.
   And this was amendment to that.
      Q Did you review Exhibit 49 at or around the time
5
   Theranos entered into this amendment?
      A Yes, I did.
8
      Q And -- and -- and last time I think we were
9 talk -- we -- we met, we talked about Theranos's right
10 to retain the innovation fee.
11
       A
          Correct.
12
          And I understand your general testimony to be
13 that, subject to a couple of exceptions, the hundred
14 million dollar innovation fee paid by Walgreens was
15 nonrefundable.
16
          MR. COOPERSMITH: And just for the record, the
17 transcript's going to speak for itself. You know, if
18 you're trying to get him to repeat what he said earlier,
19 he -- he may not be able to remember exactly what the
20 question was or what he said.
21
          MR. KOLHATKAR: Sure. I -- I -- sure. I guess --
22
          BY MR. KOLHATKAR:
23
       Q What -- was it your general understanding,
24 after Theranos entered into Exhibit 49, that any
25 innovation payments made to Theranos were nonrefundable?
0777
1
      A It was not necessarily the 2012. It was also
   the amendment that we signed end of 2013. Taking those
3
   together was nonrefundable.
         This part of the innovation piece, even this
4
5
   contract calls out was nonrefundable. But I'll have to
   look at the exact language on those two.
```

Okay. So my question to you is: What part of 8 I guess Exhibit 49 helped you develop the opinion that -- that part of the innovation fee was 10 nonrefundable?

Well, there are two things. First of all, I 12 negotiated this contract with Walgreens. I was the lead point from Theranos. And the intentions of both parties 14 was that it's nonrefundable. So that's how we entered 15 in this -- these -- these discussions that the hundred 16 million dollars was nonrefundable.

And we were structured such a way that Theranos 18 receives the payment over time, having achieved certain milestones. But the language in this contract and the amendment put together made it -- it -- it captured that 21 intent.

- 22 Q I guess can you explain the distinction between 23 Theranos might receive the payment and earn it over
- 25 Sure. This contract in 2012 split the payment Α 0778
- 1 I believe in two or three payments. I forgot exactly what was in this contract in 2012. And there were certain milestones we had to hit -- I think pilot -success of the pilot was one of those -- and some other details around the innovation payment that triggered 6 additional payments.

So initially I think the first payment was going to be for \$25 million, if I recall. And then there were additional trigger points that would allow us 10 to receive the payment. Because if you haven't received 11 it, obviously there's nothing -- you haven't earned it.

And then the language in the contract was that, 13 once we had received the -- the payments, it -- it -- it 14 discussed how -- what the payments was for.

And based on those discussions in the contract 16 and also what was in the amendment, it -- on -- signed on December 31st, 2013, you know, we structured those 18 two documents such that we get to keep the payment, and 19 the payment became nonrefundable to Walgreens.

- 20 O Could we turn to Section 6 of this contract. 21 It is -- begins on the page ending in Bates WAG-TH 55 22 and onto 56.
- 23 A Yes.

11

17

20

7

12

15

17

1

- 24 And there -- do you see the section that's 25 entitled "Section 6, Innovation Fee"? 0779
  - A Yes.
- 2 O And I think the -- the sections you reference in terms -- that you just referenced in terms of the schedule of payment being laid up -- at upon certain 5 milestones, is that captured by 6(a) here?
- 6 Seems like it, yes. I mean, I'll have to read 7 the whole thing. But from just looking at quickly, seems like it, yes.

```
9
         Why don't you take a minute and review --
10
       A Sure.
11
       Q -- Section 6 just to yourself. And let me know
12 when you've had a chance to read it.
13
       A (Examines document.)
14
          Okay. You want me to read the whole page or
15 just the first top section?
16
       Q Why -- why don't you read the whole -- the
17 whole section on the --
18
       A Okay.
19

 Q -- which continues onto the next page.

20
       A (Examines document.)
21
          Okay.
22
       Q You've had the opportunity to review Section 6?
23
24
       Q And so I guess my question initially was: Does
25 6(a) capture sort of the earning events that you
0780
1
   described in your earlier answer?
2
      A Seems like it, yes.
3
      Q And is it fair to say that --
4
         MR. COOPERSMITH: Well -- well, I think that
5
   question may have misstated. It doesn't really say
6
   "earning events." It's distribution events.
7
         MR. KOLHATKAR: Sure. I appreciate that correction.
8
         BY MR. KOLHATKAR:
      Q So does Section 6(a) capture the distribution
9
10 events --
       A It does.
11
12
       Q -- in the contract?
13
          And -- and is that essentially that there were
14 $25 million paid up front?
15
       A There -- it was not up front. It was at the
16 completion of due diligence items, as it says over here.
17
       O
           And --
18
       A So --
19
       Q -- did those due diligence items take place?
20
       Α
           Yes.
21
          Did -- the Section 6(b)(5), the Facilities
22 Visit section, describes -- describes the potential for
23 a facilities visit.
24
          Do you see that?
25
       A I do.
0781
1
      Q Did that visit take place?
2
      A I don't recall if that particularly took place
   or not. I don't.
      Q Was it your understanding that it took place at
   the satisfaction of Walgreens such that they made the
5
6
   initial $25 million payment?
7
      A It was my understanding that if there was
   anything else standing that they wanted out of this
9
   section, they would have brought it to us. But the fact
10 that they triggered this $25 million payment to us meant
```

11 they were satisfied. 12 Q The -- the -- the Section 6(a)(2) refers to a 13 second \$25 million distribution. 14 Do you see that? 15 A I do. 16 Q Was that -- was that to take place upon Theranos reaching ten patients per store during a pilot? 17 18 That's what it says here, yes. 19 And then again, the -- the -- the Subsection 3 20 there has the -- sort of the last distribution clause. 21 Do you see that? 22 A I do. 23 And were those -- was the timing of the -- the 24 second and third distribution sort of what was 25 renegotiated in that 2013 contract? 0782 1 A I don't think it was just the timing. I think there were other key provisions of the contract that were also renegotiated in the amendment that we signed 3 on December 13th of 2013. 5 MR. McKAY: You said 13th. 6 THE WITNESS: Sorry. December 31st, 2013. 7 BY MR. KOLHATKAR: 8 Q The --9 A It -- it was not just the timing of those two 10 payments. 11 Q Understanding it's not just the timing of those 12 two payments that was renegotiated as part of the 2013 amendment. 13 14 A Right. 15 Q Was the timing of these two events renegotiated 16 as part of --17 A I mean, I don't think I would describe it as 18 renegotiating the timing. It was basically we had 19 renegotiated key terms of the contract. As part of 20 that, Walgreens accelerated those \$75 million not tied 21 to these milestones anymore. 22 So they were not tied to these milestones at 23 all. It was basically completely new language and new 24 understanding that the companies arrived at. 25 If you look at Section 6(c), it states: "If 0783 Theranos realizes at least 1.75 billion in net revenue 1 domestically from laboratory services it provides at all of its laboratory locations that utilize the Theranos system within 12 months of the date that Theranos tests are available in at least 1,000 locations, Theranos will earn 50 million of the innovation fee." 6 Do you see that? 7 8 A Yes. 9 What did that provision mean to you at the time 10 Theranos entered into Exhibit 49? So there was a lot of background to why we 11 12 structured this contract the way we did and especially

this whole payment section here. 13

20

21

5

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13

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7

14 If you look at the language towards the top 15 that you had earlier read -- or actually we pointed out, 16 was that the innovation payment grant -- in this agreement is in exchange for exclusivity, price protection, first announcements rights, infrastructure 18 19 costs, and so on, so forth.

So there was lot of value that we were going to give to Walgreens in exchange for innovation payment.

22 Now, the question was how does the innovation 23 payment show up on the contract. For reasons that were clear to Walgreens -- and I didn't quite fully 25 understand why -- they wanted to structure the contract 0784

1 in such a way that it reads this way, which is basically that, even though if you read the contracts in entirety, and especially after the amendment -- but you're saying 3 ignore the amendment for now, correct?

Yeah. So at this point, the way this contract 6 read, you know, we had two milestones that we had to reach in order for us to earn. And if not, then there was this clause that says it's going to get triggered. And I think I mentioned that there were some exceptions 10 to that innovation payment -- that this clause will trigger that -- will say that we will trickle back 11 12 dollar for dollar some amount back to Walgreens.

Now, if this is all you read, then you will 14 miss the other point here, which is that this contract also talks about what happens during the -- if the 16 contract terms.

17 And the way this was structured this way was on 18 purpose, that if that section ever got triggered, which is that if we for some reason got the thousand stores --20 first of all, our understanding was, if you get the thousand stores, things are going extremely well, and 21 22 Walgreens is making lot of money in 500 stores, 600 23 stores, 700 stores before we hit thousand stores.

24 But once we get the thousand stores, and for 25 whatever reason we are not making the revenue numbers 0785

1 that are targeted over here, then things have not gone 2 well.

Theranos had the right at that -- at that point to term the contract or not renew the contract. And if we don't renew the contract, this payment is nonrefundable in that -- under -- under those circumstances.

8 So that was kind of the way we structured is that -- the contract was that way.

Q So just so I understand your answer to the 10 11 question, I think the question was: Does that sentence in the first -- first sentence of Section 6(c) refer to the first event, Theranos would have to -- the -- the 14 first event that Theranos would have to achieve before

15 it earned \$50 million of the innovation fee? 16 And my answer to that is you cannot read one 17 sentence from this thing and miss out lot of the other 18 details that went into the contract that basically gave 19 me the -- the reasons that this money was nonrefundable. 20 If you -- you -- it's not possible to read just 21 one line and ignore lot of the other things that have 22 entered into the contract and why the contract was structured this way. 24 So why don't we turn the page to the -- to the 25 page ending WAG-TH 57. 0786 1 A Mm-hmm. Yes. And the -- the second-to-last sentence of -- of 2 Section 6(c) states: "If the aforementioned milestones are not realized. Theranos will refund the entire innovation fee dollar for dollar back to Walgreens on a per-test-consumed basis with at least 50 million being credited in the first 12 months after program launch." 8 Do you see that? 9 A I do. 10 And is that the section that you were 11 referencing that related to sort of the trickle-back of 12 the fee? 13 A Yes. 14 And is -- what I understand your testimony to be that -- today that that sentence wasn't an avenue to refund the innovation fee? 16 17

The -- in that one sentence, if you read it 18 without the benefit of everything else in the contract, implies that, if we have not succeeded -- first of all, this gets triggered only if we are in thousand stores and we have not reached 2 -- \$2.5 billion.

22 If that happens, that means things didn't go 23 very well, the way we planned. So there are things that 24 will trigger it.

21

25 The discussion we were having with Walgreens 0787

was why would we hit thousand stores if things were not 1 going well, right? I mean, if you are in 500 stores, 3 things are going well, only then you would go to 600 stores or 800 stores or thousand stores. 4

5 So the -- the -- the point here was: By this time, we are in a thousand stores. For some reason, 6 things with Theranos have not gone well, even though we are in thousand stores -- and we actually did math around what would be the revenue if we are in thousand 10 stores.

11 So the -- the expectation was we will, you 12 know, easily surpass those revenue numbers.

13 But assuming that was not the case. The language here basically said, if that happens, you 14 15 trickle back. However, in that case, Theranos had the 16 right to not renew the contract.

17 And if you look at the contract language, when 18 the contract is not renewed and it expires, this money 19 becomes nonrefundable to Walgreens. 20 So just so I understand, it's -- it's your view 21 that Section 6(c), the -- the refund events, only take 22 place if Theranos was at a thousand stores to begin 23 with? 24 A That's what our expectation was. That's what 25 our understanding was, yes. 0788 1 Q And just sitting here today, is that how you 2 read Section 6(c)? A Yeah, that's how I read it. 3 Q So you mentioned the termination provisions of 5 the contract. 6 Is that -- is that what appears on the page 7 ending WAG-TH 66? 8 A Well, I -- I will have to read it. But this contract was pretty complex. So I don't think it was a 10 clear section I'd remember where it was. But if it is 11 here, then it'll be here. 12 Do you want me to read the whole thing? 13 Q Why don't you read Section 24, which begins on 14 WAG-TH 66 and continues onto WAG-TH 67. 15 A Sure. Q And let me know when you've had a chance to 16 17 review it. 18 A (Examines document.) 19 Okay. 20 Q Is this the section that -- is Section 24 the 21 section you're referring to that relates to the 22 termination of the contract? 23 A I think so. But there may be more in the 24 contract that refers to it. But from reading it, seems 25 like this is the section. 0789 Q Okay. And -- and can you explain to me which 1 part of Section 24 relates to the innovation fee being 3 nonrefundable? 4 A Well, it's -- if you look at the survival of 5 provisions, the innovation --Q Sorry. Sorry. Just for the record, you're 6 7 pointing at --8 A Sorry. 9 Q -- 24(f)? 10 A D -- oh, 24(f). Yeah. Sorry. 11 Q Okay. Sorry I interrupted you. 12 A No problems. 13 MR. McKAY: There is no (e), apparently. 14 MR. KOLHATKAR: I -- I see that. THE WITNESS: Yeah. So (f) here is the one where it 15 says the innovation payment doesn't survive. And that's 17 by design. 18 BY MR. KOLHATKAR:

19 Where do you see the innovation? 20 No, no. It's not there. If -- it lists everything that survives in terms of term. And the 21 innovation payment that was delivered back to -- was given to Theranos is not -- it doesn't survive. It's 24 nonrefundable for that reason. 25 Because it's not listed in the survival of 0790 1 provisions? 2 Α Correct. Exactly right. 3 If you look at the section before Section 4 24(d) ---5 A Right. -- it says: "Obligations upon termination." 6 O 7 Right. 8 It says -- the little (i) then (1), it says: 9 "In the event Walgreens terminates this agreement pursuant to Sections 24.b or 24.c or Theranos terminates this agreement pursuant to 23.b" --11 12 A Right. 13 -- "then within 180 calendar days of -- of the 14 termination date Theranos will refund the innovation fee as detailed in Subsections (b) and, as applicable, (c)." Do you see that? 16 17 A I do. 18 Q Does that not contemplate returning the 19 innovation fee in the event of termination? 20 I mean, not the way I read it. And again, I 21 was sitting there negotiating the contract. And this 22 is -- that was not the intent of this provision to 23 capture that. 24 Because if -- again, I'll have to go through 25 and timeline, the whole thing. But if Walgreens 0791 1 terminates the contract and they have given us the innovation payment, then why would we refund it, given all the valuable goods and services that we already 3 provided to them? 5 BY MS. CHEN: 6 Q Did you communicate your understanding to 7 anyone at Walgreens? A Every single person. Every single person from 8 Walgreens -- this -- this is their language. They created this complicated structure around this contract. 11 We would have preferred a simple language. 12 As -- if you look in 2015, we actually wanted 13 to simplify the language. But Walgreens did this so 14 that their -- they had Medicare lawyers looking at this 15 thing. They wanted to make sure that this hundred 16 million dollars was not seen as a kickback or ant -- you 17 know, antikickback laws. 18 So they structured it such a way that -- that 19 satisfies their requirement, which apparently it did, and it satisfied our requirement and our understanding

21 this hundred million dollars, once we hit the 22 milestones, is nonrefundable to -- to Walgreens. 23 And there were not just one or two people. An 24 army of Walgreens lawyers and executives worked with me 25 and negotiated this thing. 0792 1 The other thing, if I may add to this one, is 2 in 2015, late 2014, I had a conversation with (b)(7)(C) (b)(6); (b)(7)(C) and they confirmed it. 5 They said, you know, there's -- a contract is ironclad. That money is nonrefundable, you know. But 6 we would like to renegotiate to see if we can provide you some other services and goods and -- and discuss -you know, when we were negotiating the landlord-lessee 10 model in 2015, to discuss that. BY MR. KOLHATKAR: 11 12 So in that last answer I think you mentioned 13 that, once you hit the milestones, it's nonrefundable. 14 Was a -- was hitting a thousand stores not one 15 of the milestones for the innovation fee? A No. This is in 2012. Once we modified the 16 17 contract in December 2013, that obviously changed the 18 terms of the contracts very significantly. So -- which 19 is why I'm talking about both of them combined together 20 for the 2014 time frame. 21 Q Who's your lead point of contact in the 2012 22 amendment for negotiating Exhibit 49? 23 There were a large number of people who came 24 and went at Walgreens. (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) 25 0793 (b)(6); (b)(7)(C) 1 2 3 4 5 6 Then there were a large number of business 7 executives who were involved. I think -- and I'm going 8 to forget names because they used to have so many people come and go at Walgreens. 9 (b)(6); (b)(7)(C) 10 11 12 13 14 15 16 17 18 After that I believe we had another guy who came. (b)(6); (b)(7)(C) 19 20 (b)(6); (b)(7)(C) (b)(6); (b)(7)(C) 21 I forgot his name. 22 Do you recall any -- I'm sorry if I interrupted

23	you.		
24	A No. It's		
25	Q Anyone else that you recall that		
079	94		
1	A Well, there were many more. I'm just trying to		
2	think people off my head, yeah.		
3	Q Is it fair to those are the most prominent		
4	people in your mind?		
5	A (b)(6); (b)(7)(C)		
	b)(6); (b)(7)(C)		
7			
8			
9			
10			
11	0 0 0 11		
12	Q So with respect specifically to the 2012		
13	amendment, Exhibit 49, do you remember who from		
14	Walgreens suggested the language as you described it		
15	in in Sections 6 and 24?		
16 17	A Oh, I wouldn't know who from Walgreens		
18	suggested it because when the contracts came to me, it came from either $(b)(6); (b)(7)(C)$ in 2012 or from		
19	t came from ettier		
20	(b)(6); (b)(7)(C) I said.		
21	But he would he would tell me that he got		
22	feedback from dozens of people at Walgreens. I mean, so		
23	they it's a pretty sophisticated company who use		
24	they had lot of people looking at these contracts.		
25	Every single line they come renegotiate it because some		
079			
1	other executive had jumped in at the last minute.		
2	So but he was a point person.		
3	Q So for for		
4	A So where the language came from, I don't know.		
5	Q But but in terms of who communicated to you,		
6	it would be		
7	A (b)(6); (b)(7)(C)		
8	Q		
9	A		
10	Q Okay.		
11	A Most likely, yeah. And it could have been		
12	too. He was also involved. But		
13	was the one who was working with me on the language of		
14	the contract.		
15	Q What about on the Theranos side; other than		
16	yourself, who was involved in focused specifically on		
17 18	the language of the contract?		
19	A Well, I used to run everything by Elizabeth		
20	back then. Because we were small company in 2012, 50, 60, 70 people, something like that.		
21	So I used to always, you know, tell her what		
22	was going on in the contract. I would show her the		
23	language. But then I would be editing it.		
24	And then I believe we also ran it by our		
	and ment to the tree mental to your		

```
25 outside counsel, who looked at the contract language to
0796
1 give us advice on -- on different issues, different
2 matters.
3
      Q And without inquiring about the nature of the
4
   advice, who was outside counsel for?
      A I believe (b)(6); (b)(7)(C)
5
                                   was the outside
6
   counsel.
7
      Q
          Any particular partner or lawyer there?
8
      A I wouldn't remember the names. You know, it's
9
   been seven years, six years, five years.
          MR. KOLHATKAR: Okay. You could put Exhibit 49 to
10
11 the side.
12
          THE WITNESS: All right.
13
          MR. McKAY: Just slow down a little bit.
          THE WITNESS: Oh, sure.
14
15
          MR. KOLHATKAR: I'm going to hand you what's been
16 previously marked as Exhibit 265.
17
          MR. COOPERSMITH: Thanks.
18
          BY MR. KOLHATKAR:
19
       Q So I think in one of your answers a minute ago
20 you -- you -- you referenced the 2015 negotiations.
21
          So I've handed you what's been marked as
22 Exhibit 265. It's Bates-stamped
                                         THER-0982058. I'm not
    going to ask you to review it in full. But if you could
24 review the cover e-mail at least and let me know when
25 you've had a chance to read it.
0797
      A (Examines document.)
1
2
         Okay.
3
      Q Do you recognize Exhibit 265?
      A
         I do.
5
      O
          What is it?
6
          In 2015 we had started to renegotiate our
7
   agreement with Walgreens. And seems like this is one of
8
   the drafts of that -- that process.
9
          And is it an e-mail that -- that you sent to
10 Ms. Holmes forwarding a message from (b)(6); (b)(7)(C)
11
           Yes.
          And does (b)(6); (b)(7)(C)
12
       O
                                attach a proposed draft of
13 that contract?
14
           Seems like it, yes.
       Α
15
           And -- and if you look at the -- your -- the
16 second paragraph of the e-mail from yourself to
   Ms. Holmes, did you write: "The innovation payment
17
18 language is closer to what we had wanted"?
19
       A
           Seems like it, yes.
20
           Okay. So I want to turn to the innovation
    language. It -- it looks like there are basically two
   copies of the contract attached. One's a redline, and
23
   one's a -- a clean copy.
24
          If we could look at the -- the clean copy at
25 the page Bates-ending
                                THER-0982063.
0798
```

Sorry. 63. Okay. 1 2 Q It looks like -- the innovation fee is now 3 Section 5 of the -- of the contract, and it goes on on the next page. 5 Do you see that? 6 A I see it. 7 Could you read Subsections (a) and (b), and let 8 me know when you've had a chance just to review them to yourself. 10 A (Examines document.) 11 Okay. 12 Q Do you recall reviewing this draft contract at 13 the time? 14 A I probably did, yes. I don't recall it, but 15 I'm pretty sure I did. 16 Q Can you tell me what about this proposed 17 language for the innovation fee is -- is closer to what you had wanted in 2015? 19 A I wouldn't be able to recall that, what I had 20 said to her -- what I -- what we had in my mind -- I --21 in my mind or what we had discussed. But, I mean, I can 22 respond to what's here. But I don't recall. 23 Q I guess what was -- do you recall what you had 24 in mind in terms of what you had hoped to see in terms 25 of language for the innovation fee? 0799 1 A No. I mean, the -- the negotiating process 2 with Walgreens was a pulling hair process. And you will go back and forth with them and negotiate a thousand things and then land on something. So I wouldn't recall every single detail about 5 what I expected in certain draft. I'll have to look at 7 all the communication and my notes to be able to do. 8 Q Generally did -- do you have a recollection of what your hope was in terms of the innovation fee in 10 that contract negotiation? Yeah. I mean, I -- I think, first of all, it's 11 12 important to draw a line between the word -- use of word 13 "innovation fee," the way we had used the word "innovation fee" in the original contracts through 15 December 2013 when we signed the amendment and -- and 16 what was -- what we were negotiating here. 17 This is something that we hadn't signed, as you 18 know. This is 2015 negotiating draft. 19 So internally we were using this innovation fee 20 as a label towards the money that we had earned to see how now we can incent Walgreens to do things that were 22 favorable to us in a certain way. 23 So we were going to use this money now to 24 create some incentives to -- for Walgreens to be able to 25 give us some terms. 0800 1 For example, we were negotiating the economic

2 terms of the deal. The original deal we were paying

them \$10 per transaction. And the new one I wanted to pay actually zero. But we were still negotiating. We were going back and forth between 4 and 6. Ultimately 6 I -- I -- my intent was to bring it down to zero. 7 Q Why did you use the term "innovation fee" to --8 to refer to that latter point? It's just a label we use towards the money that 10 we had earned. Now we were going to use it for our business in however way wanted. And because, at least 12 in my mind, we had earned it from Walgreens, I was going 13 to use it now to see if we can, you know, use that money 14 to build out stores at Walgreens or incent them to give 15 us something that we wanted, incent them to give us some -- some terms that otherwise they may not have 17 agreed to. 18 So it's just a -- it's like referring to money 19 as, you know, kid's college fee but then using it to buy 20 a car will do it. But it's like -- it's a label that we 21 were using internally. 22 It's not like a jersey that we had retired 23 forever in -- in January of 2014 that we will never use 24 this term again. It was more loosely referring to the 25 money that we earned from Walgreens and how we can use 0801 it now as we were sitting on the table and negotiating 1 2 the contract. 3 Q If you take a look at the proposed Subsection (b) there, 5(b) on THER-0982064 --5 A Mm-hmm, yes. -- it's still includes language about opening a 6 thousand locations and certain amounts of net revenue. 8 Do you see that? 9 A I do. 10

10 Q In your view, was this language no longer 11 applicable in 2015?

12 A No. In my view, we were negotiating. And in

13 2015 -- like I said, Walgreens, it's a contract

14 negotiation -- negotiating organization. These guys

15 negotiate contracts with the most aggressive companies

16 in the world: pharma companies, insurance companies,

17 hospitals, tobacco companies, alcohol companies, sugar

18 providers. I mean, these guys know how to negotiate a

19 contract. And I learned a lot from these guys.

20 So at this point I was keeping things in play 21 so that I can get things from them and show them carrots 22 so I can say, "There's something in for you."

So but this is a negotiating process. Doesn't mean I had agreed on this language or any language. As a matter of fact, this is a draft they sent me in 0802

- 1 February of 2015. Even through September of 2015 we
- 2 still hadn't agreed on a contract. We were still going
- 3 back and forth.
- 4 So like I said earlier, my -- my intent was

```
that, if we were going to incent them by saying, "Okay.
   I -- you know, here's some money we can give to you,"
   which they, I understood, needed badly, "then here are
8
   some concessions I would need from you."
9
         And like I said, the per-patient fee that I
10 brought down from $10 to $4, I was going to get it down
   to $0.
11
12
          The -- did you view Walgreens' proposed
13 contract language here as a suggestion that they didn't
14 believe the innovation fee was completely earned by
15
   Theranos?
16
       A No. That would be false. They knew we had
17
   earned it. That was what we negotiated. And like I
18
    said, it was not one young MBA from Walgreens who
19
   negotiated this contract; they had an army of people who
20 negotiated the contract.
21
          Walgreens had the -- has the habit of coming
22 back and asking you for your first child if they could
   have it. So no. Just because Walgreens said they --
24 that, you know, they wanted this money back and that
25 thing back doesn't mean it's theirs.
0803
1
         Who at Walgreens -- I -- I think you mentioned
   this in a prior answer as well.
3
         Who -- who at Walgreens told you that Theranos
4
   had earned the hundred million dollar innovation fee?
5
          I think I answered the question earlier. Every
   single person at Walgreens back then when I spoke with,
6
   even in 2015 when (b)(6); (b)(7)(C)
7
                                                     came and
   visited us, they said, you know, "We have looked at this
9
   contract. It's ironclad. You have earned it. It's
10
   nonrefundable to Walgreens."
           Do you recall when in 2015 (b)(6); (b)(7)(C)
11
12
               said --
13
           Summer of -- summer of 2015 when I was
14 negotiating this contract with them.
15
          BY MS. CHEN:
       Q Did you have any communications with them prior
16
17 to 2015 about this point?
18
       A Yeah. I mean, all along since 2012 when we
19
   signed the amendment and 2013, 2014, this thing about
   this is refundable to them and if X, Y, Z happens then
20
   they could just ask for a refund was not on the plate.
22
    This was not -- this is what we had negotiated.
23
          If you read the language, what they wanted from
24 us was not to go to CVS. They wanted us to stay away
25 from CVS and -- and others. They also pushed for
0804
1
   Walmart and Target and others.
2
         And if you read the language around the
3
   original exclusivity, they didn't say we are giving them
   exclusivity around fingersticks or around software or
5
   around this and that. It was exclusivity that was the
   prime key value to them.
```

```
7
         So every single person on the other side at
   Walgreens knew this is what we were negotiating for.
9
      Q So the language that's under -- I guess this is
10 5(b) in Exhibit 265 -- it seems --
11
       A That's --
12
       Q -- identical to the language that's in 6(c) on
13 Exhibit 49.
14
          If Walgreens thought that innovation fee was
15 nonrefundable, why -- and that was your understanding as
   well, why -- why would -- why wouldn't this language
17
   have been kept --
18
       A Because --
19
          -- from the last amendment?
20
          I'm sorry. I didn't mean to interrupt.
21
          Because they are Walgreens. They would ask you
22
    for everything they have given you back and some if they
    could. This is how they negotiated. They are retailers
24 cutthroat business, 4 percent margins. This is how they
25 negotiate.
0805
1
         So this draft came from Walgreens to us. This
   is not me saying, "Yeah, good idea. Just put this
   language in there."
         If -- if it -- if it were up to them, they
4
   would have a -- if you look at the redline, they
   probably have removed a whole bunch of things that were
   favorable to Theranos from this contract and kept stuff
   that's favorable to them. This was their habit. And
9 this is why a contract with Walgreens took, you know,
10 months.
11
          And any time I had to go and negotiate a
12 contract with Walgreens, I mean, I used to pray that I
13 can get out from that meeting safe. Because these
14 meetings took a long time. And these guys knew -- and
15 their thing was they would put everything in the
16 contract; we will negotiate with one guy -- let's say I
   will sit down with -- (b)(6); (b)(7)(C)
17
                                        will negotiate
18 something. We will agree. We redline it. We remove
19 it.
20
          Goes back to Walgreens. They'll sit on it for
    a month and come back. And the same language is there
22
    again. And they say, "Oh, this other executive thought
23
    this was important to us. So let's renegotiate."
24
          That's why it took so long. And that's why
25 they will put it back -- any time -- even if I removed
0806
1
   it ten times, they will put it back. Didn't mean we
   agree to that.
3
          BY MR. KOLHATKAR:
4
      Q Did Walgreens' auditors at Deloitte ever
5
   contact Theranos to analyze the collectability of the
6
   innovation payment?
7
      A I don't recall if they contacted us directly.
8 I think there was one or two conversations we had had
```

9 early on, maybe in 2011 or '12, around that issue. But 10 I don't remember the exact specifics. If I see some 11 documents, I'm sure it will refresh my memory. 12 Do you recall any -- just from your memory, if 13 you provided them with any information? 14 A You know, I don't think we provided them 15 anything, but I could be wrong about that. I will have 16 to kind of look at my communications with them. 17 Q Were you aware in 2014 that Theranos had 18 retained KPMG to conduct a review of its 2012 and 2013 19 financial statements? 20 A I don't know exactly the -- whether this was we 21 retained them in 2014 to conduct '12 and '13 statements. 22 But I do believe we had retained them to do audit of our 23 financials for 2012, '13, and beyond. So but I don't 24 know if that was -- that happened in 2014 and if those 25 were the only two purposes. 0807 But you did understand KPMG was auditing 1 2 Theranos's financials; is that -- at -- at --3 A We want -- we wanted them to audit our 4 financials, yes. 5 Q And whether or not they completed it or not, they were engaged to -- to start that work. 7 They were engaged to start. I don't know if 8 they even started their work. 9 Q Were you aware that KPMG believed that the 10 initial innovation fee payment should be accounted for as a customer deposit on Theranos's balance sheets and 12 should not be recognized as revenue? 13 A I don't think KPMG got deep enough into any of 14 those details to be able to form their opinion. And -and so answer is, if this was their opinion, I would 16 have known about it. But I don't think this was 17 their -- their formal opinion. 18 Q In other words, you were not aware of that 19 opinion from KPMG? 20 A That's correct. 21 BY MS. CHEN: 22 With respect to Deloitte, why would they be 23 asking for evidence of collectability of the innovation fee if the innovation fee wasn't supposed to be collectible by Walgreens? 0808 1 A You mean --2 MR. COOPERSMITH: Do you have a time frame as to 3 when you're saying Deloitte was asking the question? 4 BY MS. CHEN: 5 Q Well, Mr. Balwani, you recall that there were discussions sometime in 2011 or 2012. 7 That was what you said in your testimony, 8 correct? 9 A No, no, no. What -- I was responding to the questions if I recalled a Walgreens auditor asking us 10

for something. And I -- my response was I didn't know 12 it was Deloitte or who the auditor was. 13 My recollection is I think we had a discussion 14 with Walgreens around that, but I don't remember the specifics of what it was. And I certainly don't know 16 why Walgreens' auditors would be asking for something from Walgreens. I -- I would not be able to comment on 18 that. 19 O So what were the discussions that you recall 20 happening in 2011 and 2012? 21 A I don't. I just remember that we had a 22 discussion around this topic. But like I said, if I saw 23 my e-mail communication with Walgreens guys or whoever, 24 chances are it's going to be with, you know, lawyers or accountants there. If I saw those, that would probably 0809 1 refresh my memory. I can comment on that. But it was so long ago, there's -- there's no way I remember that. 3 BY MR. KOLHATKAR: 4 Q When -- in your prior testimony we generally 5 discussed Theranos's financial model and the potential to -- to perform services for pharmaceutical companies at Walgreens locations. 8 Yes. Α 9 Did Theranos have a team of employees working 10 on potential pharmaceutical services in 2014? 11 A No. I think I had commented that we would have 12 to -- we had to hire somebody to lead that effort. At 13 that point we hadn't -- I mean, before I came to 14 Theranos, this is what Theranos did. And -- and there 15 were people who were familiar with this business who had 16 engaged with pharmaceutical companies before I had come 17 on board. So in -- in a way, yes, we had those people. 18 But in order to fully engage with that business 19 we had to build a team from -- again. 20 Q In 2014 was it anyone's job at Theranos to work 21 on pharmaceutical services? 22 Not to best of my knowledge. 23 What document would best reflect your 24 expectations for Theranos's retail growth at any given 25 point in time? 0810 1 A I'm not sure I understand the question. 2 So we talked, when -- when you were here last time, about the financial model. 4 A Right. 5 Do you recall that? 6 Would the financial model best reflect your

assumptions about Theranos's likely retail growth at any

The financial model I was using as a planning

A If I'm -- I'm not sure if I'm answering your

12 tool also. So all the information that came to me from

8

9

11

given point in time?

10 question, but I'll attempt it.

13 field and from the Internet, whatever I learned -- I
14 think I mentioned that to you also -- I would put that
15 in the model.
16 So in a -- in a way, the answer to that
17 question is yes, the model did reflect my assumptions
18 about growth. Because like I said, I was using this as
19 a planning tool for business also.
20 Q Were there any other documents other than the
21 model that you would have used to sort of plan out your
22 expectations for retail growth at Walgreens or other

23 retail locations?
24 A I mean, I think the answer to that is no. But
25 I actually don't know what would be -- for example, if
0811

there's an e-mail exchange between me and Walgreens or
some documents or meeting minutes from them that came,
and I knew -- I was aware that document is there, would
that be considered a -- a document for that purpose or
not.

But I'm trying to narrowly define content that I personally proactively created. And model I think would be the one.

- 9 Q I also want to clarify a couple of points in 10 your understanding of -- of CLIA's -- of Theranos's CLIA 11 lab operations.
- 12 A Okay.
- Q Who at Theranos made the determination of what device to use for patient testing in the CLIA lab?
- 15 A It's evolved over time. Initially in 2010, 16 2011 -- it was, I think -- I was not involved. It was 17 the lab. We had one lab director with three or four 18 individuals. They did some research on what to pick, 19 what to use. And they had picked the original devices.

And then after 2011, from a product dev perspective, I got involved, understand how the, you know, other companies use it. And then I started playing more and more active role.

24 But even there my participation was from a 25 business perspective. The technical decisions were 0812

- being made by the CLIA lab directors and the scientistsand engineers in the company.
- 3 Q So, you know, just using a hypothetical of a 4 test that can be run on any of the three models --
- 5 A Sure.
- 6 Q -- you know, the TSPU, the modified or the 7 unmodified, who would have the final say about which 8 machine Theranos should use to test CLIA samples in the 9 lab?
- 10 A Well, the final say is always the lab director.
- 11 So lab director, if they don't sign up, that's the end
- 12 of it.
- 13 Q Okay.
- 14 A But --

```
15
           Was that true throughout your time at Theranos?
16
       A
           Yes.
17
           Okay. Was it your understanding in 2014 that
18 Theranos primarily used third-party analyzers in its
19 CLIA lab, whether modified or unmodified, for patient
20 testing?
21
       A That's -- that's a difficult question to
22 answer.
23
          Are you talking about in terms of number of
24 devices or number of tests or --
25
          In term --
0813
1
          -- primarily in terms of what?
2
          In terms of number of tests.
          I wouldn't be able to answer. I will have to
   look at the data. But, I mean, the modified devices are
   not commercially available, as you know. I think I
5
   explained to you they were very significantly modified.
   So I considered them as not commercially available
   devices anymore once we modified them to the extent that
9
   we did.
10
          So I would say, if you -- if you use Theranos's
11 technology, then I would say in 2014 majority were being
   used on some form of Theranos's technology. But again,
13 I could be off. I'll have to look at the data in our
14 lab information system.
       Q What -- what do you mean by "Theranos
15
16 technology" in that answer?
       A Well, when we modified the commercial
17
18 analyzers, we modified the software, the hardware, and
   bunch of other things that I -- I think I had shared
20 that with you. So that made them not commercially
21
   available anymore. Significantly modified.
22
          And so that -- I -- I used -- I considered that
23
   as Theranos proprietary technology. We had a discussion
24 about that around our trade secrets.
25
          So if you put -- take that world, then I would
0814
   say majority of the testing was being done on those
   devices on Theranos's technology. But I could -- like I
   said, I could be wrong. I will -- the numbers changed
   by month, you know, based on ordering patterns and bunch
5
   of other things.
6
      Q In that last answer would the -- would the
   Theranos technology also include the -- the TSPU?
8
      A
          Yes.
9
          Okay. So is it fair to say that, in your view,
10 Theranos's technology consisted of -- in the CLIA lab
    setting -- of the -- the TSPU and then the modified
12 third-party devices?
13
       A Yes.
14
         Is it fair to say that the unmodified
15 third-party devices did not -- would not be Theranos
   proprietary technology?
```

```
17
          If -- if you're talking about only in the
18 context of the CLIA lab, the answer is yes.
19
       Q I'll hand you what's -- you can put the other
20 exhibits aside. Thank you.
21
          I'll hand you what's previously been marked as
22 Exhibit 201. And I'm not going to ask you to review
   this in full. But if you could review the cover page
   and what -- let me know when you've had a chance to
25 understand what this document is.
0815
      A (Examines document.)
1
2
         Okay.
3
      Q Have you -- do you recognize Exhibit 201?
4
          I could recognize by looking at the cover page,
5
   yes.
      Q Do you -- do you understand it to be Theranos's
6
   responses to a set of interrogatories in the PFM
   litigation?
9
      A
          Seems like it.
10
       Q If you turn to the page ending in 3358, do you
    see Request No. 64 there?
11
12
       A
          I do.
13
           And you stated, asking Theranos to identify any
       Q
14 commercially avail -- available machine that Theranos
15 modified for use to process tests on capillary or other
16 microsamples?
17
       A
          I do.
18
          If you look past the -- if you could -- if you
19 turn the page to 3362.
20
       A Okay.
21
       Q Do you see that part of the answer lists four
22
    devices there: the Siemens ADVIA 1800, BD Biosciences
23
   LSR Fortessa, BD Biosciences FACSC -- or FACSCS --
24
           FACS -- yeah. FACSCanto.
25
       Q
           -- Canto --
0816
      A
1
          Yes.
2
      O
          -- II, and the Drew Scientific Drew-3?
3
      A
          I do.
4
          Is that consistent with your understanding of
   the third-party machines that Theranos modified in order
   to test capillary or microsamples of patient blood?
6
7
      A In the CLIA lab.
8
      O
          In the CLIA lab.
9
          I think that seems right.
          Was this also your understanding at the time
10
11
   these -- these devices were modified for that purpose?
12
       A For what purpose? For CLIA lab patient sample
13 testing --
14
       Q
          For --
15
          -- yes.
16
          In other words, you under -- there -- there are
17
   some time periods here listed for when these devices
18 were used?
```

```
19
          Yeah. I mean, I don't know about the time
20 periods, obviously. But the devices' names sound
21
   correct.
22
          BY MS. CHEN:
23
       Q Was it your understanding, from 2013 to 2015,
24 that these four third-party machines were being modified
   by Theranos to test patient samples?
0817
1
      A Correct.
2
         BY MR. KOLHATKAR:
3
      Q Were you aware of any other third-party
   machines that had been modified by Theranos for -- to
5
   test patient samples in the CLIA lab?
      A Off the top of my head, I don't know. I can't
6
7
   think of any.
8
      Q Who at Theranos would best know the answer to
9
   that question?
10
          Well, the lab director, but -- would know. But
11 I think this information is in the software. Software
12 tracks all single details. So no one person has to --
13 had to really memorize this information.
14
       Q Would that software also reflect the machine in
15 the -- in the LIS database, sort of the output?
16
       A Yes.
17
       Q If you turn to the next page, in -- in response
18 to -- to (d), there's a -- there's a list of -- of tests
19 that were available to be run on the modified
20 ADVIA 1800.
21
          Do you see that?
22
       A I do.
23
       Q Could you take a minute and just read the list
24 to yourself, please.
25
       A Sure.
0818
1
         (Examines document.)
2
3
      Q You've had a chance to review pages 36 -- 3363
   through 3366?
5
      A
         Yes.
6
      Q
          You see that it lists 49 tests there?
7
      A
          Yes.
          Is this list that appears on those pages
   consistent with your understanding of the tests that
10 were run on a modified protocol of the ADVIA 1800?
       A I -- I wouldn't remember exact tests running
11
12 from what time to what time. So there's no way for me
13 to be able to -- be able to memorize this.
14
       Q You don't -- you don't have any personal memory
15 of on a test-by-test basis?
16
       A
           Unfortunately, no. That would be nice, but I
17
   don't.
18
           What about for the -- if you look at the
   paragraph below the -- the last -- below No. 49, it
20 references the fact that the BD Biosciences LSR,
```

- Fortessa, the FACSCanto II, and the Drew Scientific were
  used to process complete blood count test panel?
  A I see that.
  Q Was that consistent with your understanding of
  what those three machines were used for? In the CLIA
  0819
- lab again.
   A I think so. But, you know, I could be wrong.
   These are -- these are pretty arcane lab details. But I would say, from a business perspective, it looks reasonable.
- 6 Q Did you remember any other tests being run on 7 those machines?
- 8 A You know, I think there was one test that we 9 were -- we had validated called TBNK. I don't know if 10 it was -- went live or not. It may actually have gone 11 live. So -- but I may be wrong about that. So it may 12 be something that was done in R&D.

## BY MS. CHEN:

13

20

10

- Q So if you look at 3363 to 3366, which lists the tests that were being run on the Siemens ADVIA 1800 analyzers that had been modified by Theranos, was it consistent with your understanding from 2013 to 2015 that there was a maximum of 49 tests that were performed using the modified Siemens ADVIA 1800 analyzer?
  - A I wouldn't remember the exact number.
- Q Was that around -- about 50 tests, was that around -- does that seem about right to you based on your understanding?
- A Yeah. I think my recollection is that in -- in total we had about 80 tests off -- 70 to 80 tests 0820
- 1 offered from fingerstick. So if 40 to 50 are running on 2 ADVIA 1800, that sounds like a reasonable number.
- 3 Q Okay. And that was your understanding back in 4 2013 to 2015 as well?
- 5 A I actually don't know if I knew, in 2013, '14, 6 '15, exactly how many tests were returning on what
- 7 machine. But at some point over time I did acquire that 8 understanding, that our total number was about that 9 ballpark.

## BY MR. KOLHATKAR:

- 11 Q You mentioned a total of around 80. 12 And I think we -- we talked about -- a
  - And I think we -- we talked about -- about a
- dozen being run on the TSPU; is that A Sounds right. In CLIA lab.
- 14 A Sounds right. In CLIA lab.
  15 Q In -- in the CLIA lab.
- Did you have an understanding in 2014 that about -- about 12 tests were being run on the TSPU in the CLIA lab?
- 19 A Again, I wouldn't be able to pinpoint dates and 20 times, but the number sounds reasonable.
- MR. KOLHATKAR: We've been going almost an hour.
- 22 Why don't we take a quick break.

```
23
          We're off the record at 1:46 p.m.
24
          (Recess taken.)
25
          THE VIDEO OPERATOR: We're back on the record. The
0821
1
   time on the video monitor is 1:38.
         MR. KOLHATKAR: So we're back on the record at 1:38.
2
3
         BY MR. KOLHATKAR:
4
      Q Mr. Balwani, just to confirm, you didn't have
5
   any substantive discussions with the staff during the
   break; is that correct?
7
      Α
          That's correct.
8
           So I actually do want you to take -- take a
   look back at Exhibit 201 just for another minute, if you
   wouldn't mind.
11
          So I just want to -- taking a look at the total
12 number of tests here, it looks like Exhibit 201
13 identifies 49 tests that could be run on the -- on the
14 ADVIA 1800; is that right?
15
           That's what it -- from this document, yes.
16
       O
           Again, in the CLIA lab.
17
       A
          Yes.
18
          And I think we had talked last time about a
19 dozen or so being run on the -- on the TSPU; is that --
20
       A
           Sounds right.
21
          And then looks like the other three devices are
22 all used to -- to run a complete blood count. So one
23 more test on -- on the other kind of modified devices.
24
           Was -- complete blood count is not one test. I
25 think it's combination of 10 or 12 tests or some number
0822
1
   tests. It's not just one test.
2
      Q How many tests did Theranos offer, again
3
   approximately, in its CLIA lab setting, in 2014?
4
      A I -- I think the number changed. But it was
   between 150 to 200 or 210 or 220-ish. That -- I mean,
5
   I'm giving you a pretty broad ballpark here, but
   that's -- that's the number.
7
8
          So if we -- if we add together sort of the --
   the number of tests that are available on the TSPU, the
10 modified ADVIA 1800, and the three other devices listed
    in -- in -- in response to Interrogatory 64, it's
11
12
    about -- it's fair to say about 73, 74 tests; is that --
13
           Sounds reasonable.
14
           So is it -- was it your understanding in -- in
15 2014 that Theranos was running about half of its tests
   or fewer on Theranos technology?
17
          Yeah, I think -- maybe I should clarify. Maybe
18 you're confusing two things here. Maybe you're not. I
19 just want to clarify.
20
          When I was here last time, we had walked
21 through this concept of person digital test or how many
    tests in details about -- based on all you're talking
    about, the visits, how many tests you are doing
    actually, how many tests you could have done.
```

```
25
          And I think I had gone through a pretty
0823
   complicated example that probably bored everybody, but I
1
   had gone through the example.
3
         So I just want to make sure that you're
4 saying -- when I said earlier that we are doing majority
   of the tests, we are talking about the majority of the
   people coming in for -- on -- on whom we were doing the
   fingerstick as a test, or are you saying what percentage
   of individual line items test that were on a menu were
9 being done on fingerstick versus how many could have --
10 we could have done.
11
          So I -- there are three different things there
12 at least.
13
       Q I think I -- my -- my question's maybe simpler
14 than -- than --
15
       A Okay.
          -- than any of those.
16
          In terms of the tests available on Theranos's
17
18 menu in 2014 --
19
       A Just the items -- test items.
20
       O -- test items, 150 to 200 and --
21
       A Yes.
22
         -- 10, was it your understanding in 2014
23 that -- that about half or less were -- were being run
    on Theranos technology?
25
           That would be about 70 to 80. So about that
0824
1 number, yes. That would be correct.
2
      Q In the CLIA lab setting at the --
3
      A Correct. Yes.
4
      Q And you understand that in 2014.
5
      A In terms of individual tests? Again, I think I
   answered that also. At what point in 2014 I knew
   exactly what numbers. It may have changed. But in
   general I knew that we were performing about 70 to 80
   tests from nanotainers -- let's call that -- that
10 microvolume or nanovolume. And then our total menu on
11 the website, what -- that we offered to the public was
12 between 150 to 200.
13
          During what time in 2014, it may have changed.
14 But that's my recollection.
15
          BY MS. CHEN:
          And the remainder of the tests were being
16
17
   performed on unmodified third-party machines or were
   being sent out to reference labs; is that correct?
18
19
           I would say that's correct, yes.
       A
20
          But again, just to clarify, that does not
21
    correlate to the volume, right? And I think I went
22 through the example that you could have, you know, four
    groups of patients, you know, come in with 90 percent of
24 the tests we could have done from fingerstick. But if
25 one of the tests triggers renal puncture, everything
0825
```

```
1
   moves to renal puncture.
2
         So now in that case, you know, you did zero
3
   tests on fingerstick, right?
         So I -- if you want, I can rehash that example.
5
         BY MR. KOLHATKAR:
      Q I think I under -- my question wasn't about
6
7
   sort of the frequency of the tests or --
8
          The visits.
9
      Q -- or the visits --
10
       A Yeah.
11
       O -- themselves.
12
       A Yeah.
13
       Q
          The --
14
       A But -- even to -- just to be clear, again, from
15 our perspective, that's a more important measure.
    Because it's the number of patients you touch that
   matters, not necessarily that's on your menu.
17
18
       Q In -- in 2014 did you have a sense -- I'll --
19 I'll strike that.
20
          In your earlier testimony we also briefly
21
   discussed that you attended a meeting at Johns Hopkins.
22
          Do you recall that generally?
23
       A I -- I attended -- I recall attending a meeting
24 at Johns Hopkins.
25
           Okay.
       Q
0826
          Yes.
1
      Α
2
          When do you recall -- when -- when do you
   recall attending a meeting at Johns Hopkins?
      A I think it may have been earlier in the
   process, between 2010 and 2012 time frame. I don't know
   which -- which -- which year, which month.
          And do you recall bringing a -- an earlier
8 version, a 3.0 or a 3.5 version, of the TSPU to that
   meeting?
9
10
       Α
          Yes.
11
           Who else attended on Theranos's behalf?
12
       A I believe myself and Ms. Holmes for sure. I
   don't know if he brought somebody else to carry around
14 our stuff or attending the meeting or not. I don't
15 remember.
16
           Where did the meeting take place?
17
           Maryland, at Johns Hopkins' campus.
18
           Who attended on the -- on -- on behalf of Johns
       O
19 Hopkins?
20
       A They had I think at least three or four
21
    experts. One was their chief lab director -- not just
22
   lab director, but I think he was head of all the labs at
23 Hopkins. I forgot the names. It's been a while.
24
          Then they had another guy who was an expert in,
25 you know, microsamples and diagnostics technologies.
0827
1 And they had couple other MDs, I think. They had four
2 or five people, if I'm not mistaken.
```

- Q What was the purpose of that meeting between Theranos and Johns Hopkins?
- 5 A Well, Walgreens had asked for the meeting.
- 6 They had arranged the meeting. We didn't ask for the
- 7 meeting. They had wanted us to meet with Hopkins so 8 Hopkins can ask us questions; do the due diligence on
- 0 our architecture our technology; and assess the
- 9 our architecture, our technology; and assess the
- 10 potential of what we were doing and -- and what we could 11 do. So it was a Walgreens meeting.
- 12 Q Did you provide any information to Johns
- 13 Hopkins before that meeting?
- 14 A I don't recall.
- 15 Q Do you know who provided information to Johns
- 16 Hopkins after that meeting?
- 17 A We may have. I wouldn't remember. It's been a 18 while.
- 19 Q What do you recall from that meeting with Johns 20 Hopkins?
- 21 A It was -- I think it was a positive, friendly
- 22 meeting. We spent -- I don't know how long we spent,
- 23 but felt like a long time there answering the questions,
- 24 show them the architecture, show them the consumables.
- 25 I showed -- I think we showed them even the fingerstick 0828
- 1 process, but I'm not sure if we actually had performed a
- 2 fingerstick or not. They were more interested in the
- 3 science and data. And we discussed that in detail.
- Basically whatever questions they had around our technology and architecture, we answered those questions.
  - Q Did you show them -- was there like a
- PowerPoint that Theranos had prepared for that meeting?
- 9 A I don't remember if we had a PowerPoint. I
- 10 know we had brought our data. So I don't know if that
- 11 was in slides or hard copied. I -- I don't remember 12 that.
- 13 Q Did you understand that meeting to be for the
- 14 purpose of Johns Hopkins validating Theranos's
- 15 technology?
- 16 A That's what was communicated to us by
- 17 Walgreens, is -- is my recollection, yes.
- 18 Q And under what standard did you understand that 19 validation to take place?
- 20 A I don't know. That was a Walgreens-Hopkins
- 21 discussion that I don't think I -- I participated in.
- 22 So what was their arrangement, what were they
- 23 validating, what were the terms, I -- I wouldn't know
- 24 that.
- Q Did you receive a copy of a report completed by 0829
- 1 John Hopkins from that meeting?
- 2 A I recall us getting a final copy that
- 3 actually -- I don't think even Hopkins shared that with
- 4 us. I think Walgreens gave us a copy of that report.

That's my recollection. But I could be wrong on that. 5 6 But Walgreens gave us a copy of the assessment 7 and the summary of the meeting. 8 Q Did you represent to investors that Johns 9 Hopkins had validated Theranos's technology? 10 A I don't recall what was in the report. Was the 11 report that we had showed to investors. So I don't know 12 what was the language in there that I used. 13 Q Did -- separate from -- did -- did you -- you 14 provided that report to investors? 15 A I think the report was part of the slide deck. 16 Or during the meetings we usually would -- you had --17 had the report handy. 18 So if that discussion came up, we will show 19 them the whole report. Because there were certain passages in the report which we liked. So --20 21 Q What validation work did you understand Johns 22 Hopkins had done on the -- on Theranos's technology? 23 A Well, they had validated our architecture. 24 They looked at the data. They looked at how we had designed the device. They looked at the architecture of 0830 1 our consumables. They looked at how our consumables and 2 our fingerprick, you know, match or mate with each 3 other, and how we collect the sample. 4 None of those are small, trivial issues. So 5 they saw the architecture of how we had solved it. And we were planning on solving other things in the future. 6 7 So we had a fairly detailed discussion around tech with 8 them around that. 9 And what -- what about that led you to the 10 understanding that they had validated that -- that --11 that architecture? 12 A Again, I think I -- I -- I don't know if I used 13 the word or not. What was -- whatever it was there in 14 the Hopkins letter is what I probably used. So if I see 15 the letter, I'll probably be able to tell what was there 16 if I -- and if it says "validated" -- "validation," then 17 I would probably have used the word "validation." 18 What did you understand "validate" to mean in 19 terms of assay technology in 2013 or earlier? 20 Well, I mean, I think I had shared with you 21 Theranos did a really broad set of things. It was a pretty broad set of technologies. And Hopkins looked at, you know, one time point of that technology of what 24 we were doing. 25 So I didn't necessarily attach a specific 0831 meaning to the word "validation." The point was we had 1 met with Hopkins; Walgreens had hired Hopkins to look at 3 our technology, look at our architecture and -- so that 4 Walgreens reaches a certain level of satisfaction, which

It was Walgreens I think that even came up with

5

6

is what they did.

the word "validation," if -- if it is not our word. If it was in the report, then it's probably either Hopkins 9 or Walgreens came up with that word.

10 But I didn't necessarily attach any specific 11 meaning to the word "validation." It was more that 12 Hopkins guys have seen it, and they -- they did that on 13 behalf of Walgreens.

## BY MS. CHEN:

What do you mean by "architecture"?

So if you look at how out TSPUs and our entire 17 technology stack is built, it is extremely different from how the traditional labs have -- have evolved. We 19 actually literally put it on -- on its head.

20 What we did was, if you look at a traditional 21 lab or traditional lab industry, either you have CLIA 22 waived devices, which are near patients, so glucose meters and such, and all you have these devices that are 24 in a central lab location, whether it's high complexity 25 or moderate complexity.

0832

7

8

10

12

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16

18

1 But those devices require oversight, human 2 oversight. The reason is, as these devices perform QC 3 and QA, the software, which is attached -- physically attached to the machine, displays that information, and the human has to decide whether the device is good to process patient samples or not. 6

So there's a lot of manual oversight that is -goes over the device that happens in the lab, which is why a -- trained professionals are required.

Our patents and our breakthrough -- and I believe it's a very significant breakthrough -- was we 11 split those two things. Because there's this thing --13 this thing called Internet and Cloud. We said, "Why 14 don't we that?"

Now, to get credit, this is something that 16 Elizabeth and other engineers at Theranos had done before I came to the company in 2010. But what they did 17 was they split the -- the unit which processes the 18 sample and generates these signals from the software 20 that provides the oversight. And they put it on the 21 Cloud.

22 And the device now can be anywhere in the 23 world. But the central lab can still have oversight over it as if the machine is running right in front of 25 them in the lab.

0833

And that's also covered in our FDA clearance. 1 2 This is why our first clearance from FDA was so significant. Because it covers the entire infrastructure. It covers not just the patient -- the 5 sample collection, but running the sample in the field. Actually, the other thing that was really 6 unique about our architecture was, now that you have

split the TSPU from this rigorous oversight of a central

lab, you can put it near a patient. You can put it near 10 CLIA waive facilities. So clinics, even people's homes, 11 technically speaking, at some point. 12

And a person who can just do a fingerstick and 13 who's trained -- and I think a requirement was, in order 14 to get CLIA waiver, you have to prove that even a person 15 with 7th grade education can operate and run this 16 device, which is obviously not the case in a central 17 lab.

So -- and 7th grade education person can 19 collect the sample, put the cartridge. And the machine and the software and the entire architecture is robust enough to say yes, the sample was run successfully, or 22 no, it was not, and tell you why it was not. Now, the QC may have failed, or the calibrators may have failed, 24 or something else may have gone wrong.

25 I think I had mentioned last time that, in the 0834

18

21

8

12

16

1 traditional CLIA waived devices, if you insert let's say a glucose meter cartridge, if you had left that cartridge in the sun in your car for like a day, the machine won't tell you that your results are wrong. 5 Because the chemistry's probably off because of heat, and you're supposed to keep it in a certain 6 7 temperature-controlled zone.

In our case, all of that intelligence was built 9 in the cartridge so that, when we ran the cartridge, we 10 could see if the calibrators are giving us the known values or not. It goes to the Cloud. 11

The CLIA lab can say, "Yeah, the cartridge 13 looks okay. The reagents look okay. We got the right answers. Therefore, the patient results is good," just 15 like they would have done in a central lab location. So we file a patent on those things because

17 this changes the game for the -- the lab. Because now 18 what you have is a central lab which has all of this --19 this word that we had used, TVA, Theranos Virtual 20 Analyzer. So this analyzer piece of software which 21 usually sits physically on the machine is now running on 22 the Cloud.

And the CLIA lab people are sitting literally 23 24 in front of the computers looking at all this data 25 coming in from the field. And these devices could be 0835

1 anywhere in the field, right? And it could be, you know, literally Walgreens locations, doctors' offices.

3 And if anything goes wrong, proactive we know 4 on those dashboards something went wrong, so don't rely 5 on the result.

So what this gives -- allows us to do is you 6 7 have a convenience of a CLIA waived device, like glucose meters, and ease of use also, but the oversight of a 9 central lab that comes with all this infrastructure, architecture that we built. And that was the innovation

```
11 here.
12
       Q So the architecture is the connectivity to the
13 Cloud?
14
       A Is -- well, connectivity is the enabler. And
15 that certainly is a big component of that.
          But the other architecture also is you insert
16
17 the cartridge, the device -- most of the devices that
18 you run in the central lab have these protocols loaded
   on them, assays cleared on them, and the protocol's
   already baked in. You cannot really change the
21
   protocols.
22
          In our case, the way -- because we were always
23 connected to the Cloud, when you insert a cartridge --
24 let's assume you have built a brand-new cartridge that
25 has a different combination of tests that requires a
0836
1 brand-new protocol.
         You insert that in the device anywhere in the
2
   world. The device is going to call back home lab
   saying, "I've never seen this cartridge. What do I
5
   supposed -- what am I supposed to do?"
         The -- the central lab will send the protocol
6
7
   to the device saying, "Here's the protocol you need to
   run, including the oversight and the QA and the QC and
   the calibrators." And then you generate the data, and
10 then you send to the Cloud.
11
          So the Internet is enabler. But the fact that
12 we can modify the architecture, modify the protocols,
    "modicy" the -- modify the movement of the device is
13
14 the -- is the big breakthrough here.
15
       Q So when you say that Johns Hopkins was able to
16 see the architecture that's Theranos had built, what --
   what did you show Johns Hopkins about the architecture?
17
18
       A Well, we walked through this entire example.
   And I don't know if we ran the test there or not. We
19
20 had left this device at Walgreens location also.
21
    Walgreens had our TSPU I think for six months or nine
22 months or however long.
23
          So I think some of the Walgreens executives
24 also brought their data, that had -- we ran a vitamin D
25 test. This is what --
0837
         THE REPORTER: I'm sorry. That brought their
1
2
   data --
3
         THE WITNESS: And -- and showed it at Hopkins that
   we ran vitamin D test or whatever test they ran. And
   they were able to explain to them how it happened and
   how it worked from Walgreens' perspective.
6
7
         So I don't remember exactly what we discussed.
   Like I said, it was a meeting more than five years ago
   or six years ago. But this is the architecture that we
10 would discuss with them.
11
          BY MS. CHEN:
12
         Did you conduct a demonstration while at the
```

13 Johns Hopkins meeting? 14 A Like I said, I don't know if we actually did or 15 not. But we left the device with Walgreens. And I 16 believe they used to show this device to people who were under NDAs with us. So I wouldn't be surprised if they 18 saw that at Walgreens. 19 Did you provide one of your analyzers to Johns 20 Hopkins for their review? 21 A Outside of this meeting? 22 Q Yes. 23 A No, I don't recall that. 24 How long was the meeting? 25 Don't remember. It was few hours for sure. We 0838 1 had specially flown for this meeting. So I'm pretty sure it was a long meeting. Q And then before you ended up showing or sending 3 4 the summary of that meeting to investors, did you ask 5 Johns Hopkins whether that would be appropriate to do? A We had asked Walgreens, and Walgreens was fine 7 with it. That's how we got the report, is what my recollection is. 9 Q So Johns Hopkins had -- had no knowledge that you had shown the report to --A I don't know what Walgreens --11 12 Q Let -- let me just finish --13 A Sorry. 14 -- my question. 15 So Johns Hopkins had no knowledge that you had 16 shown the report or the summary to investors? 17 A I don't know the answer to that question. 18 Because we got the report from Walgreens because 19 Walgreens was the client for Hopkins. It's possible 20 Hopkins knew about it. I just don't know the answer to 21 that question. 22 Q But you didn't have any communications with 23 Johns Hopkins about the summary after that meeting? 24 A Me personally? 25 O Yes. 0839 1 Α No. 2 And you're not aware of anyone at Theranos having any discussions with Johns Hopkins after that 4 meeting? 5 A I don't recall that. 6 BY MR. KOLHATKAR: 7 Q Did you ask Walgreens specifically if you could provide the Johns Hopkins report to potential investors 9 in Theranos? 10 Yeah. We had an NDA in place with Walgreens 11 that governed what we could share with investors or not. 12 So we didn't have to go one incidence at a time to ask Walgreens what we could do with the content, which --

14 just like Walgreens was not doing the same with us.

15 When we provided to -- something to them, any 16 entity that was covered by the NDA, Walgreens was 17 responsible for it. 18 So it -- it is possible that we talked to 19 Walgreens about it. I just don't know the answer 20 because the answer is we didn't have to necessarily ask 21 them permission by -- case-by-case permission. 22 Q If I understand your answer, you don't recall a 23 specific conversation asking for permission, but you wouldn't need to because of the NDA? 25 Correct. A 0840 1 The -- the device that was -- Johns Hopkins never reviewed Theranos's modifications of commercially available devices; is that fair? That's correct. We would not show those to 4 5 those -- to them. 6 Q And so whatever validation work Johns Hopkins 7 did at that meeting was for a device that ultimately was used for about 12 tests in the CLIA lab; is that fair? 9 Initially, yes. The goal of that meeting at 10 that point was we were focused more at that point on Phase II, which is why I -- I was saying that I don't 12 recall if the meeting happened in 2010, '11, or '12. 13 If it happened before 2012, in all 14 likelihood -- June 2012, in all likelihood we were talking about Phase II, which was TSPU phase. So it 16 would make perfect sense that that's what we were 17 focusing on. 18 Q You never showed anyone from Johns Hopkins the 19 4 series device; is that fair? 20 A I don't recall. Hopkins actually had visited 21 us later. So they may have seen 4 series devices. I --22 I don't recall that. Q What -- what do you recall about the later 23 24 Hopkins visit? 25 A I don't recall specifically. I just remember 0841 1 that we had some communication with Hopkin -- with Hopkins. And there's one or two individuals who were interested in -- in either consulting, or we wanted them to work with us. I -- I vaguely remember. They -either we visited them or they visited us. So -- but my point is I don't know whether we 6 7 showed 4-S to them or not. I don't know the answer. Q At this meeting that you recall from sometime 8 before 2013, you don't recall bringing a 4 series? 10 A In this meeting, the -- the one that you referred earlier? 11 12 Correct. At Johns Hopkins. Yeah. No, we didn't bring 4 -- 4 -- any 4 13 series device in that -- in that meeting. 15 I'm going to hand you a document that's

16 previously been marked as Exhibit 264.

```
A Could I put this away?
17
18
          You can put that away.
19
          Just for the record, 264 is a document
20
    Bates-stamped THPFM 696484.
21
          Let me know when you've a had chance to just
22 flip through 264.
23
       A
          Okay. I have.
24
       O
           Do you recognize Exhibit 264?
25
           Yes, I do.
0842
1
      O
           What is it?
2
          This is a e-mail exchange -- actually, you
   know, there's a jump in the dates. This is an e-mail
   exchange between me and a few individuals at Walgreens.
   Initially seems like it started (b)(6); (b)(7)(C)
5
                                                in 2012,
   November of 2012. And then -- and make sure.
7
          Actually started in October of 2012. And the
8
   last chat here is November of 2012. And then somebody
9
   else from Walgreens picked it up in September of 2014,
10 two years later.
11
           Okay. And it -- and -- and looks like you sent
12 it on to Ms. Holmes on September 11, 2014?
13
           Yes. That's correct.
14
           And -- and she responded on the 23rd of
       Q
15 September.
16
          Do you see that?
17
          Yes.
18
          The subject line is "Innovation Payment
       O
19 Letter."
20
          Do you see that?
21
       A I do.
22
          I'd like you to turn to the -- the -- the page
    ending 696487. There's a message from (b)(6); (b)(7)(C)
                                                        to you
24 dated November 5, 2012.
25
          And you see Point 1 (b)(6); (b)(7)(C)
                                          states: "If we
0843
1 can -- if we get to the point where we still need this
   letter, but the innovation payment amount has reached
   50M or higher, will you be able to provide a letter that
   covers the full 50M? Not an issue right now, but just
   want to put this on your radar in case the situation
6
   arises."
7
      A I see that.
8
          Do -- do -- do you have a -- a recollection of
9
   what (b)(6); (b)(7)(C) was referring to?
10
           You know, this may be -- I think we had earlier
    discussion around this topic where their auditor's
    asking them for some letter. And this may be that
    conversation that I was referring to. And [b)(6); (b)(7)(C)
14 the account -- accountant -- the point person back then.
15 So that seems like it.
16
          Okay. So -- so you understood this to relate
17 to that conversation earlier about communication either
18 with Walgreens or its auditor about the -- the
```

```
innovation fee?
20
           With Walgreens. I -- I don't think I
21 communicated with the auditors. That's not my
22 recollection. This is -- these are all Walgreens
23
   people.
24
       Q And then did you -- do you see the e-mail, if
25 you look at the page ending 696486, November 15, 2012
0844
   e-mail from (b)(6); (b)(7)(C)
1
          It says: "Deloitte finally got back to us this
2
   afternoon. They indicated that they would want to
3
   confirm the terms of the line of credit directly with
5
   Fidelity."
6
      Α
          Yes.
7
           Do you see -- what -- do you have any
   recollection of what line of credit they wanted to
   confirm with Fidelity?
       A I don't. I -- I don't recall that.
10
11
       Q Okay. If you take a look --
12
          BY MS. CHEN:
13
           Well, just going back to that same e-mail. If
14 you look at the next sentence -- or the next -- let's
15 see. The sentence that starts: "Once I have that."
          It says -- this is (b)(6); (b)(7)(C) writing to you:
16
17 "Once I have that, I will forward it to you so you can
18 see exactly what they would be asking Fidelity and
    assess whether you still want to take this approach to
19
20 cover off the collectability of the innovation fee."
21
          So do you understand that to be referring to
22
    Walgreens needing to prove -- or Walgreens asking
    Theranos to prove to its auditors that Walgreens would
24 be able to collect the innovation fee back from
25 Theranos?
0845
1
           This is what his e-mail is implying, yes.
2
          Okay. Do you -- do you recall those
3
   discussions happening around this time in 2012?
4
          I think I answered that earlier, that I have
   vague recollection that they had wanted some kind of
   letter for their auditors, and we had a discussion
7
   around that. But I obviously didn't recall this e --
8
   specific e-mail.
9
         BY MR. KOLHATKAR:
10
          If you turn to the first page of Exhibit 264,
11 the message from (b)(6); (b)(7)(C)
                                     to you dated September 11,
12 2014.
          Do you see that?
13
14
       A I do.
15
           This would be after the -- the -- both the 2012
16 amendment and late 2013 amendment had been signed; is
17
    that correct?
18
           That's right.
       A
19
           And in your view, by this time Walgreens had
20 expressed the -- the -- the view that the -- the
```

- 21 innovation fee was -- was paid to Theranos and 22 nonrefundable, right?
- 23 A That's correct.
- 24 Q If you take a look at his message, he
- 25 references: "Schedule B, Section 6(b)(VI) includes the 0846
- 1 following sentence: Further, the parties shall agree
- 2 upon the appropriate measure in order to measure -- in
- 3 order to measure collectability as it relates to the
- 4 initial \$25 million payment."
- 5 A So just to clarify, he's referring to the 2012 6 contract language, is -- is my guess here.
  - Q Why -- why is that your guess?
- 8 A Because I don't recall we went into this level
- 9 of detail in the 2013 amendment. And the 2013 amendment
- 10 actually changed the economics and the dynamics around
- 11 the innovation payment very significantly. So that's
- 12 why, is my guess. But I -- we have the contract there.
- 13 If you want, I can look it up.
- 14 Q I -- my -- my question is: Did you have any
- 15 understanding of why he was asking about the
- 16 collectability of the payment, you know, now late in
- 17 2014 long after the 2013 amendment?
- 18 A Yeah. I mean, I -- I -- my -- first of all, I
- 19 didn't provide him anything that he wanted because he
- 20 knew he was not entitled to it. Walgreens, if they were
- 21 entitled to anything from us, \$400 million would have
- 22 not let me sleep until they got it.
- 23 So I don't recall giving them anything -- even
- 24 his last sentence I'm reading -- reading and smiling
- 25 here: "While the innovation fee -- fee has been paid, 0847
- 1 the concept of the fee being earned is still at play
- 2 within the contract. As such, I would like to take the
- 3 position," blah, blah, blah.
- 4 He couldn't take that position. He knew that.
- 5 And -- which is why I didn't respond to him. And to the
- 6 best of my knowledge, this was -- this -- we dropped
- 7 the -- the issue here, and they didn't come back and ask
- 8 me for anything.
- 9 Q Why -- why did -- why did you
- 10 believe he could not take the position that the fee was
- 11 outstanding?
- 12 A The reason I think I answered the question is
- 13 that our understanding from signing the contracts and
- 14 having worked with them for a long time was that that
- 15 money was earned by Theranos. It is nonrefundable to
- 16 Walgreens.
- Now, I mean, I knew these guys in September of
- 18 2014 were going through a very difficult time at
- 19 Walgreens. They were not even letting people travel to
- 20 save money. They had identified a billion dollar hole
- 21 in their financials, and they were trying to plug that
- 22 hole any way they could. They told me that. This is

23 how I know. 24 And their first move was to see if they could 25 move the headquarter from U.S. to Monte Carlo to save 0848 1 them a billion dollars in taxes. They would avoid the 2 U.S. That didn't work out very well. But they were trying, spinning the wheels, to see if they could recognize some -- some of their money on their books somehow. 5 6 So that what my -- that was my guess, that this is why he was trying to see if they could show something 7 on their books probably. He's not asking for money back; he was just trying to be able to show us that they 10 have this hundred million dollar outstanding, which they 11 knew they didn't. 12 So I don't know how -- what they did with it. 13 But that was kind of my guess on what -- on why he was pursuing this line of reasoning. 15 Around this time in late 2014, did anyone else 16 from Walgreens take the position that the concept of the 17 innovation fee being earned is still at play? 18 A I don't recall if I saw -- I mean, it wouldn't 19 surprise me. I mean, it -- Walgreens will give a 20 hundred bucks, take you for a shower, and then they will 21 say, "Give me my hundred bucks back now." 22 So wouldn't surprise me if Walgreens took the position. The question is: Do they have -- did they 24 have the ground to take the position? The answer is no. 25 I guess my question is simpler: Do you 0849 1 remember anyone at Walgreens taking that position? 2 A No. I said I don't recall any. 3 BY MS. CHEN: Q Why didn't you respond back to (b)(6); (b)(7)(C) 4 to let him know that your understanding was different and 5 6 you didn't -- you did you not agree with his position? That's because I worked with Walgreens for six 8 years. I knew it was a waste of time. If -- there was not -- something was not refundable to them, there's no 10 reason to get into a debate with them. If they thought that we owed them something, let them come back and 12 prove it to us, which they didn't. 13 BY MR. KOLHATKAR: 14 You can put Exhibit 264 to the side. Thank 15 you. When we met last time, I -- I asked you a 16 couple of questions about whether you had any phone 17 18 calls or communications with Theranos's insurers. 19 Do you recall that generally? 20 A Yes. I think we had a conversation, yes. 21 Q Have you refreshed your recollection on that -on -- on that call since -- since that --23 Α No. 24 In October of 2014, did you tell Theranos's

- 25 insurers or potential insurers that Theranos would break 0850
- 1 even in 2015 on a hundred million dollars in revenue?
  - A I don't recall that.
- 3 Q Did you tell insurers or potential insurers in
- 4 October 2014 that you expected Theranos to break even by 5 mid 2015?
- 6 A I don't recall. I would -- saying that. I --
- 7 I would have to see my notes.
- 8 Q In October 2014 did you have an expectation 9 that Theranos would break even by mid 2015?
- 10 A I don't recall in this moment. But if I saw
- 11 the model, and the exemption's there, I would be able to 12 answer that question.
- 13 Q In other words, like the retail rollout, the
- 14 model would best reflect your assumptions about the
- 15 timing of Theranos' break-even status?
- 16 A Yeah. And if there were any changes that I had
- 17 to make to be able to see where I would be in mid 2015,
- 18 the model will tell me that.
- 19 Q Did you tell Theranos's insurers or prospective
- 20 insurers that you expected Theranos to ramp revenue in
- 21 January with \$20 million expected per quarter?
- 22 A I don't recall saying that.
- 23 Q Did you tell Theranos's insurers or prospective
- 24 insurers that you expected to add 400 Walgreens in the
- 25 first part of 2015?
- 0851
- 1 A I don't recall. The -- again, the model will
- 2 probably tell me more.
- 3 Q Did you share Theranos's financial model with
- 4 its insurers or prospective insurers?
- 5 A Don't recall so.
- 6 Q Did you tell Theranos's insurers or potential
- 7 insurers that Theranos would have -- would be opening
  - multiple labs in early 2015?
- 9 A Again, specifically, I don't recall saying
- 10 that.
- 11 Q Was it your understanding that Theranos was
- 12 planning on opening additional labs in early 2015?
- 13 A Not early. In 2015. We had a plan.
- Q What was the plan in terms of which labs to 15 open?
- 16 A The Arizona lab opened in 2015. And I believe
- 17 we were opening the central Pennsylvania lab. And we
- 18 had also talked to Walgreens about potentially either
- 19 New York or California. We were still going back and
- 20 forth on that.
- 21 Q Both the Arizona lab and the planned
- 22 Pennsylvania lab were -- were going to start out as
- 23 moderate complexity labs; is that correct?
- A That was our intent. But I think the
- 25 certificate of one may have been filed as a high
- 0852

- complexity. I'm just pointing out a technicality. But the intent was to start them out as moderate complexity. 3 Correct.
- 4 Q Did you tell Theranos's insurers or potential 5 insurers that Theranos would spend less than \$2 million to get each of its new labs up and running?
- A I don't remember specifically if I said that 7 during that meeting.
- Q Did you have a sense in October of 2014 how 9 10 much it would cost to open an additional lab?
- Yeah. I mean, in order to bootstrap a new lab, 11 12 it doesn't take that much money. So 2 million sounds 13 like about a reasonable number.
- 14 O Did you tell Theranos's insurers or potential 15 insurers that Theranos would be using its manufactured devices at the labs it was planning on opening?
  - A I don't recall saying that.
- 18 Did you tell Theranos's insurers or prospective 19 insurers that Theranos saved money by making and 20 building its own equipment for use in those new labs?
  - I don't recall saying that sentence.
- 22 Did you tell Theranos's insurers or prospective 23 insurers in October 2014 that Theranos was projecting 24 150 to 200 million dollars in revenue by the end of 25 2015?

0853

5

14

17

21

- 1 I don't recall that specific.
- 2 We -- we talked at some length about Theranos providing lower price lab testing for -- for consumers. 4

How was Theranos able to provide lower cost blood testing?

A Well, that's a -- that's a complicated 6 question. The short answer to that is through use -use of a lot of software and integrating a lot of 9 different moving pieces.

10 However, lab business is a volume business. So 11 if you open a lab and one customer shows up, you know, you lose money. And you need a certain volume to be 12 13 able to -- to -- to make -- make a profit.

But I would say a combination of how we thought 15 about the lab from ground zero, bottom up, about how the lab is going to come together, the integration of 16 17 different pieces of software.

For instance, in our patient service centers at 18 19 Walgreens, if you go to a typical lab, Quest 20 Diagnostics, LabCorp, hospitals, you know, takes anywhere from 30 minutes to two hours, depending on how 21 22 long, you know, you have to wait.

23 At Theranos we were able to use our software to 24 reduce our average visit time. I think it was below ten 25 minutes. And -- and people that we had already seen and 0854

- 1 met, their visit time was two to five minutes.
- 2 That allowed us to reduce the labor that was

required in the patient service centers from, you know, four to one person. One person could serve 40, 50 5 patients.

So you can see how that -- and then there was a lot of intelligence that went into the software to be able to speed things up. We had also integrated that process with the mobile app for consumers that we had launched. And were making it better and better.

That allowed people to, from home, tell us 12 they're on their way and -- and upload their order by just taking a picture of the order, so by the time you come to the store, we have trans -- electronically 15 converted that into electronic order.

If you have insurance, we can -- we could also check eligibility for you and tell you if anything's due or not.

And so basically, by the time you get to the 20 Walgreens locations or other stores, all of the hard work is already done. And so you could get in and out in couple of minutes.

23 So all of those innovations -- and there were 24 many more. I could tell you how we integrated our call 25 center, patient center center. Coming together allowed 0855

1 us to reduce the cost.

6 7

10

11

13

16

17

18

19

21

22

13

16

17 18

20

21

22

2 Q I guess on a per-test -- we talked a lot about 3 Theranos and when it would break even overall.

4 On -- on a per-test basis, was Theranos 5 breaking even on its -- on its lab testing services at Walgreens? 6

A Is a difficult question to answer. Because, like I said, if you -- it's like opening a restaurant, right? If one customer shows, you serve them the most 10 expensive dish in the restaurant, chances are you're 11 still not going to recover the cost for the whole 12 restaurant.

So on per-test basis, you can only start to 14 make money once you've hit a certain volume. Especially on the batch processing machines. If you open a bottle of reagent that is required to run hundred samples and you only get 30 samples, your cost goes triple.

Now, assuming that that's not the case, we 19 actually got hundred samples to run, our prices for reagents, the machines, through software in the field was pretty, you know, aggressive.

So I think we -- at -- at a certain 23 volume, we would have absolutely hit those numbers.

Q So as -- I understand your answer to be so --24 25 and think about it I guess in terms of variable costs. 0856

1 If you'd hit a certain amount of volume, you felt comfortable that your pricing would have -- would 3 have covered the cost of physically running the task? 4 A Had high confidence. Yes, sir.

```
5
         Did you conduct any analysis to see if it
6
   was -- if that was actually happening in 2014?
7
      A Yeah. No, I -- I did the analysis all the
8 time. We actually -- I had commissioned a small project
9
   where we looked at every single tiny detail of -- of our
10 operation in Arizona, for example. Because that's --
11
    was our first market.
12
          And all the way from how much we are spending
13 on gas and car washes and how much we pay for food and
14 drivers, I had a full detailed analysis. The volume was
15 not there yet for us to be making money in 2014 in
16 Arizona.
17
          But there are also many different elements of
18 variable costs. For example, if you look at the
    variable cost of doing just a test in the lab, it's just
    a reagent. Because the machine has already been QC'd.
21
    The person is already there.
22
          I had shared with you our contract with Siemens
23
    even, even with the third-party vendors. We had
24 negotiated really good prices. So for a test like CBC,
25 which we billed at I believe $6, and other labs bill at
0857
1 anywhere from $12 to a thousand dollars, our cost was 18
   cents for the variable, for the reagent.
3
         So even if you added labor and machines and
4
   this and that, you know, we were in a competitive
   position even compared to other labs. But because we
   had software, even if, for example, larger labs, instead
7
   of 18 cents they had a deal at 16 cents, I was pretty
   confident of our software was -- was much superior that,
   once you hit a certain volume, we'll be able to get
10 better margins than them. I had high confidence.
11
          In other words, so your confidence -- the
12 confident in 2014 that Theranos would be able to
    maintain -- achieve profitability maintaining that low
14
    price point --
15
       A Yeah.
16
          -- once volume was attained?
17
           Yes. Yeah. Exactly.
18
           Did you review the materials provided in
       O
19 binders to (b)(6); (b)(7)(C)
                               before they were sent to him?
20
           No, I did not.
21
          I'll hand you a document that's been previously
22 marked as Exhibit 150.
23
          If you could just take a minute to read it.
24 It's just two pages. And let me know when you've had a
25 chance to review Exhibit 150.
0858
1
      A
          You want me to read the whole thing?
2
      Q
          Sure.
3
          (Examines document.)
4
         Okay. Not the attachments, right? Okay. It's
5
   just business cards. Never mind. Yeah.
          You've had an opportunity to review Exhibit
```

```
150?
7
8
      A
          Yes.
9
      Q
          Did you review Exhibit 150 at or around the
   time it was sent to (b)(6); (b)(7)(C)
10
11
       A No, I did not.
12
          Had -- have you review -- ever reviewed a
13
    similar letter sent to other potential investors?
14
          I have not.
15
       O
           If you see the -- I think it would be the third
16 paragraph down. Begins: "Theranos is a sensors and
    software company." Sorry. I think one paragraph down
17
    from where you're indicating.
18
19
           Yes, I see that.
20
          Have you used that phrase to describe Theranos
       Q
21
   before?
22
       A
          Yes.
23
       0
          What -- what are you -- what -- what is -- what
    did you mean by that when you used that phrase?
25
          I think I mentioned that last time briefly that
0859
   we used to view ourselves primarily as a software
   company. And sensors basically is a way you sense
3
   information.
4
         So for us, diagnostics equipment and labs is
   sensing information from human blood to start with. But
5
   we had ambitions beyond just, you know, lab testing. We
   viewed ourselves more as a software company looking at
   data and mining data and coming up with patterns. Kind
   of like Google does, you know, with Google Maps and
   such. Just like, you know, smart phones become sensors,
    but the data goes to Google Cloud, and the Cloud churns
12 the data and -- and create -- finds -- using -- uses
13
    algorithms to find patterns.
14
          So we used to define our mission to -- to
15 investors as sensors and software company. So we use
16 that quite a bit, actually.
17
       O
           And so you heard Ms. Holmes use that phrase as
18 well?
19
           Yeah. And I use that too.
20
           If you look two more paragraphs down, it says:
    "Theranos has not only reduced to practice and patented
    its comprehensive technological and operational
    infrastructure over the past ten years, but has also had
   regulatory certifications to operate commercially,
25 including as a CLIA-certified laboratory, the regulatory
0860
1
   certification for labs since 2011."
2
          Yes. I see that.
3
          How had Theranos reduced to practice and
   patented its comprehensive technological and operational
5
   infrastructure?
6
      A I think I -- I -- I briefly walked through our
7
   architecture around our technology, around how we had
   done things which are radically different from how the
```

lab industry had evolved. 10 So even the simple process of collecting 11 fingersticks -- which people just think a fingerstick you just take and ship at somebody. It's not that 13 simple. 14 There are entire industries who do nothing but 15 do collection devices. And we came up with CTNs and 16 filed tremendous amount of patents around just that one 17 process. 18 So this entire technology stack, all the way 19 from software doing eligibility checks for you to e-mail integration to a patient's mobile phone, you know, 21 capturing that information, sending the data back to --22 the samples traveling, tracking the samples, coming to 23 the CLIA lab, the entire infrastructure we already had 24 in place by then. 25 And Theranos's operational infrastructure at Q 0861 this time in the CLIA lab included unmodified 1 2 commercially available devices; is that correct? 3 It included that, yes. A 4 And it included third-party devices that had 5 been modified and not patented for that purpose, right? 6 A Correct. 7 So part of its operational structure had not 8 been patented at the time; is that correct? 9 Α That's correct. 10 So in terms of -- what do you think is being 11 described here in terms of the comprehensive 12 technological and operational infrastructure? 13 A Only I don't -- I don't know what she was 14 trying to refer -- what she had in mind here. This is a 15 pretty broad statement. So she could be describing 16 maybe just the -- the fingerstick collection process, or 17 she could be describing our lab -- entire lab 18 infrastructure. I don't know. 19 We did have a lot of patents on even our 20 software that was in the CLIA lab that had nothing to do 21 with fingerstick. So I don't know what she's referring 22 to here specifically. 23 I'm assuming Elizabeth wrote this. Yeah. So I 24 don't know. 25 Q At the time -- and I guess that's a fair 0862 1 question. 2 You see Ms. Holmes's signature at the bottom of 3 the page there. 4 A I do. I see her --5 Would you understand it to be her practice to read letters like this before she signed letter? And I know she didn't read my e-mails. So if

she had wrote it, then my guess is she must have -- must

have read it. Or if she sent it -- sorry. If she sent 10 it, my -- you know, she probably must have read it.

9

11 The -- other than the CLIA certification, what 12 regulatory certifications had Theranos achieved to 13 operate commercially by December 2014? 14 A I don't recall top of my head. I was not 15 involved with that part of the business, so --Q If you turn to the next page, the first -- or I 16 17 guess the second paragraph there: "Theranos has grown 18 from cash from its contracts for some time." 19 Where you are you again? 20 The first sentence of the first kind of long 21 paragraph there. 22 Yeah, I see that. Sorry. Yeah. A 23 Had Theranos grown from cash from its contracts 24 for some time by December 2014? Again, I don't know what she means here. But 25 0863 1 we did get cash from -- you know, we had these hundred million dollars that, you know, we got from Walgreens. We had gotten I think some money from Safeway. I -- I 3 don't remember the details of that. 5 And then but prior to that, the company did get cash from contracts that had been pharmaceutical companies and DOD I think. So we did get cash from 8 those contracts. 9 Those weren't the only basis of capital that 10 Theranos was using to grow at that time. No. Equity obviously, yeah. 11 12 Did you ever use that phrase: "Theranos has 13 grown from cash from its contracts"? 14 A I don't recall. It would depend on the 15 context. But I -- I don't specifically recall me using 16 that. 17 If you look at the next paragraph down, it 18 says: "As the company is -- as the company gains visibility, we have had interest from a large number of 20 funds in acquiring an equity stake in Theranos." 21 Yes. 22 What -- what large number of funds expressed an interest in acquiring an equity stake in Theranos by 24 December 2014? 25 Well, I recall at least three meetings that I 0864 1 attended. And there may have been more, but three that I was involved with. I recall BDT for sure. And I think I mentioned that to you last time. 4 I also recall -- I'm going to get these guys wrong -- either Morgan Stanley or JPMorgan. They had visited us once, and they had expressed strong interest. 7 They were really wanting to participate and -- and --

8 and be involved with the company.
9 And I also think I had met with Goldman Sachs.
10 But I could be getting the timings wrong. I don't know
11 which -- when I met them. So I remember at least those
12 three meetings that I attended. Like I said, there may

- 13 be others that -- that others had attended, Elizabeth14 and others.
- 15 Q At -- at this time had -- in December 4th,
- 16 2014, had Theranos turned down BDT's proposed 17 investment?
- 18 A Yeah. I mean, in October of 2014, we had a
- 19 brief discussion at the board meeting where we said, you
- 20 know, we're not going to pursue this. Even though BDT
- 21 kept selling it, obviously, to us. But we had decided
- 22 we are not pursuing this path.
- Q Did you communicate the -- the -- the fact that you're not going to pursue the BDT investment to BDT?
- A You know, I was involved in one meeting in 0865
- which I said what they was -- they were proposing was not something we would be interested in.
- 3 But then we were engaged with them because they
- 4 were also our consultants. So there was little bit of
- 5 overlap between what they were telling -- talking to us
- 6 as consultants versus what -- in the same meetings they
- 7 were try to sell really hard that they -- we should let
- 8 them invest using the structured deal that they were
- 9 proposing.10 So I
- So I recall my conversations in those meetings saying, "Structured deals, not very attractive. We're not going to proceed with that. Unlikely."
  - So -- but I don't know.
- Q And what was the purpose -- so after October 2014, what was the purpose of your participation in any meetings with BDT in either November or December or
- 17 January?

13

- A Yeah. I recall we had paid them what I -- what I thought was significant amount of money for consulting
- 20 services.
- One thing that they were helping me with was
- 22 cleaning of the model. I had given them a copy of the
  - 3 model. These were financial wizards, bunch of MBAs. I
- 24 was MBA, too, but they were -- they were more MBAs. And
- 25 they were helping me clean up the model. 0866
- 1 I also spoke with them around, you know, just
  - thinking out loud about different strategies. And I believe Elizabeth was spending quite a bit of time in
- the meetings that I had participated around how to
- 5 structure the company for the long-term.
- 6 You know, as we -- as the company generates
- 7 more cash, how we should start buying the existing
- 8 investors. Should it be dividends? Should it be in a9 stock repurchase? Some of those discussions had already
- 10 started happening around that time, and BDT was involved
- 11 in those. And they were advising us on lot of those
- 12 matters.
- And also I think we had discussions with them
- 14 around stock options and how to structure stock options,

```
15 RSUs, how to put limits on when an employee leaves, what
16 happens, and so on, so forth.
       Q But to the best of your memory, by December
17
18 2014, you had affirmatively communicated to BDT you were
19 not interested in any structured investment from them?
20
       A Yeah. I mean, I recall that was my
21 conversation. But obviously, like I said, even after
22 that when I met with them, they would used to
   continuously -- especially (b)(6); (b)(7)(C)
                                         used to say,
24 "This is a great deal." He continually -- continuously
25 pushed.
0867
1
         And we -- you know, I was polite. I would
   listen. I would smile. And then we'll talk about what
   I was interested in the meeting.
4
      Q Do you know if Elizabeth Holmes communicated
   the same to -- to BDT after that October board meeting?
5
6
      A I don't know what she communicated. She spent
7
   more time with these guys than I did. So I don't know.
8
         What was her purpose in meeting with BDT after
9
   that time, if --
10
       A I think everything that I just shared right now
11 is what she was discussing with them about structuring
   the company, what to do once the -- when the company's
    cash flow positive. When the cash -- cash comes in; how
14 to buy back stock; how we should give dividends out for
15 the long-term, five, ten years.
16
          But these are the conversations we were having
17 with these guys. They were advising us of that. At
   least in the meetings that I was, that's the meeting I
    know. Meetings that I was not part of, I don't know
20
   what they were discussing.
21
       Q In the meetings that you were a part of, did
22 you ever hear her express to BDT that she was not
23 interested in a structure deal?
24
       A Yeah. I mean, I was -- she was in the meeting
25 in which I made that comment, so --
0868
1
      Q My question's a little different: Did you ever
   hear her make a similar comment at that meeting?
3
      A I don't recall. I mean, I -- I know I made
   that comment politely. You know (b)(6); (b)(7)(C)
5
   (b)(6); (b)(7)(C) So I liked engaging with him. I was learning
   a lot from him (b)(6); (b)(7)(C)
                                                    But I
6
7
   made that point.
8
         You can put Exhibit 150 to the side.
9
         THE WITNESS: Am I doing okay?
10
          MR. KOLHATKAR: I'll hand you what's previously been
11
   marked as Exhibit 266.
12
          THE WITNESS: Thanks.
13
          MR. KOLHATKAR: For the record, 266 is a document
14
   that's been previously marked and Bates-stamped as THPFM
15
    3891168 through 3891189.
16
          THE WITNESS: Okay.
```

```
17
          BY MR. KOLHATKAR:
18
          Do -- do you recognize Exhibit 266?
19
       A
          I do.
20
       0
          What is it?
           This is a document that we had received from
21
22 BDT -- well, I'd received from Elizabeth Holmes. But
    we -- as a company we received from BDT, I think -- I'm
   trying to see the date here -- end of December or
    12/19/2014.
25
0869
      Q And did you review the -- the attachment to the
1
2
   e-mail on or about December 19, 2014?
3
          Yeah. I think I -- if I recall correctly, I
   had taken two passes at this. The first time when I saw
   this attachment, I opened it up, and I just took my
   mouse and scrolled back and forth to see how long it is
   before -- whether I should read it now or later.
7
8
         And I noticed that it was not DRM'd, which --
9
   it was not encrypted. And I looked at all of the
10
    sections that were here, I mean, just highlighted -- I
11
    highlight all the section.
12
          And I don't remember if I talked to Elizabeth
13
    about it or if I talked to one of the product managers
14
   who was also involved at -- as an interface point with
15 BDT guys.
16
          I said, "Look. These guys have put a lot of
    confidential information here that is not DRM'd. And so
17
18 we need to reach out to them and tell them to, first of
19 all, protect it. But the more importantly, I don't know
20 where they maintain their e-mail servers. They could be
   running on Google. Somebody could be scanning this
22
    document because it's not encrypted. So we should tell
23
   them to remove it from -- from the e-mail servers."
24
          So that was my first conversation.
25
       Q
          Do you remember who the product manager or
0870
1
   project manager was that you were --
2
      Α
          Yeah, I was --
3
          -- you were interfering with?
4
      A If I -- I'm sure there's more e-mails around
5
   this time frame around BDT. But more likely than not
   it's going to be (b)(6); (b)(7)(C)
   it could be with Elizabeth Holmes also. I mean, I just
7
   don't remember if I had that conversation.
9
         It's more of a operational conversation. So
10
    chances are I probably didn't call Elizabeth saying,
11
    "Hey, DRM this document." Probably some PM, but --
12 because it required following up with these guys.
13
          But I may have talked to Elizabeth depending on
14 time of the day. Actually, you know, it's late in the
   night. So I don't know maybe if I talked to her or not.
15
       Q When was the second time you reviewed the
16
17
    document?
18
          Yeah. I think right after that, within a day
```

```
19 or so, maybe at the same day, I reviewed the document.
20 And I -- I didn't read the whole thing, but what I read
21 was there were so many errors in this document that then
22 I went to talk to Elizabeth either on the phone or in
23 person.
24
          And I said, "I don't know who authorized this
25 document, a document like this. If you needed it or if
0871
1 we as Theranos needed it, our team should have produced
2 it."
3
         And she says, "Oh, no. I didn't know anything
4
   about the document either."
5
         And I said, "Well, there are at lot of errors
6
   here. Do you want me to spend time on this now?"
7
         She goes, "Don't waste your time on this. This
8
   is not going to be used. And I'll talk to (b)(7)(C)
9
         And that was my conversation. So I -- that was
10 the end of it.
11
       Q When do you recall that conversation taking
12 place?
13
          I think either it was the same day or couple of
14 days after that. Because I -- I usually -- if you don't
   follow up with something like this immediately, then it
16 kind of sits in my inbox for a while.
17
       Q Did -- it was your -- it -- it was your
18 understanding that Ms. Holmes had reviewed the document
19 when you spoke with her about it?
20
       A No.
21
       Q
           Why not?
22
           She didn't know what was in the document. I --
23 I -- I told her, "There are errors."
24
          She goes, "Okay."
25
          I said, "Do you want me to edit it?"
0872
1
         She goes, "Don't waste your time on it."
2
         Did you describe the nature of the errors?
      O
3
      A Yeah. I -- I think I remember two or three
   things here which -- which stuck with me that -- that I
5
   shared with her.
6
      Q
          What stuck out in your mind?
7
          The first one was they had used the name
   "Project Test" as a code name for Theranos to obscure
   this document or the company they're talking about.
10 Except that, when I read it, they had Elizabeth Holmes'
11 name everywhere, "Walgreens" everywhere. And looking at
12 the picture -- if you go to page number end -- ending
13 with 1179, they actually have a picture of Theranos
14 there with "Theranos" written right at the top.
15
          And you remember viewing that picture in
16 December 2014?
17
       A Yeah. Because to me, this was a typical
18 document that only -- excuse me for saying this -- only
19
   MBAs can produce because it was so silly that they were
20 trying to obscure something, yet Theranos is right
```

21 there. 22 So that was the first thing. I said, "You 23 know, this is pretty silly." 24 And I think the other thing -- I'm probably --25 it's going to take me some time to find it, but they had 0873 either claimed that we had invented nucleic acid 1 amplification or sequencing. I forgot which ones. Clearly we didn't. Because that's like saying we 4 invented a PC or iPhone. 5 And I said, "So how" -- so those are the two 6 things. There may be -- there were other things that I noticed back then, but those two kind of stuck with me because they were entertaining. 9 So if -- if BDT was serving as Theranos's consultant for the model and business strategy at this point, why would you spend time reviewing this in 12 December 2014? 13 Because I think they sent this to us in 2014. A 14 Sure. But I had understood your earlier 15 testimony to be that, by this point in time, you were, you know, being polite but turning down their 17 investment --18 A Right. 19 -- over and over again, right? 20 A Right. 21 Q In your initial review, did you understand this 22 document to relate to a potential investment? No. When I first opened the document, I didn't 23 24 know what it was, obviously. That's why you open it. 25 And -- and it actually says "Company Overview," and I 0874 1 didn't know what was the purpose behind it. So I probably didn't even notice the -- the title. But I 3 just opened it to see what it was. And it was only when I spoke with Elizabeth 4 5 later, when I gave her my feedback, that she said, you, know -- I had a -- even a -- like two-second conversation with her about that. 7 8 After that conversation you had with her where -- where you described that there were errors, did 10 you -- did you follow up with her after any subsequent meetings she had with (b)(6); (b)(7)(C) or anyone at BDT? 12 I don't recall, no. 13 Q Did -- did you bring this up in any later 14 meetings with BDT? A I don't recall. I don't think I met with BDT 15 16 in 2015. But I may have. But I -- I don't think I then 17 brought this up. 18 I guess why wouldn't you bring -- why -- why --19 why wouldn't you bring it up if you had conversations or 20 meetings with them after? Siemens. Yeah, sure. Sorry. Didn't mean to interrupt. 21

My assumption was Elizabeth must have spoken

22

23 with them, which is why they didn't bring it up. And I 24 thought the hot -- document was so silly that it was 25 embarrassing. So I didn't want to bring it up for that 0875 1 reason also. 2 But I actually don't think I met with them, is 3 the first thing, after this -- this time frame. 4 Q I guess were you concerned that the people you had hired to be your consultants had produced, in your 5 own words, a silly document like this? 7 You know, I was irritated. But I didn't ask 8 them to produce this document. Obviously nobody was going to use this document without my permission. So, 10 you know, I didn't pursue it. I -- I kind of let it go. 11 O Sure. 12 But I guess at some -- some point you were --13 you were -- you were paying them for their advice, 14 right? 15 Yeah. But I think we didn't renew our Α 16 consulting with them. 17 When did that -- when -- when did you decline 18 to renew your consulting agreements? 19 A I think I just kind of dropped out around this 20 time frame. I -- I don't -- I don't remember what was 21 the term of the contract, maybe three months or six 22 months. But after that we didn't renew -- we didn't do 23 any work with these guys. 24 Just taking a look at the -- the first page of 25 the document, of Exhibit 266, you see (b)(6); (b)(7)(C) sends it 0876 1 to Ms. Holmes and copies (b)(6); (b)(7)(C) 2 (b)(6); 3 Do you see that? 4 Yes, I see that. 5 Do you know who (b)(6); (b)(7)(C) is? 6 Α Probably their guys. I don't know. 7 Or (b)(6); (b)(7)(C) Q 8 I mean, he had two or three people with him who were, like I said, M -- you know, MBA types who would be on -- on -- with him. But I don't remember if those are 11 the people or not. 12 Do -- do -- do you remember who those people Q 13 are? 14 A No, I don't. 15 You recognize (b)(6); (b)(7)(C) Q though? I recognize (b)(6); yeah. 16 17 You see that he's asking to -- he -- he's -you see his initial message says: "Elizabeth, attached is the preliminary draft of our company overview that we 20 would plan to send to the preapproved co-investor 21 targets." 22 Do you see that? 23 A Yes. 24 Had Theranos preapproved co-investor targets

```
25 for BDT at the time?
0877
1
      A I don't personally recall that.
2
      Q Do you -- do you see -- next line down it says:
3
   "Hopefully you will find it a reasonable start to an
   info doc that appropriately describe the company."
5
         Do you see that?
6
      A I do.
      Q After your review, did you believe it was a
   document that reasonably described the company?
      A I don't think so.
10
       Q Did you --
11
       A Wait. Sorry. Which is why I went to Elizabeth
12 making that exact point.
13
          Did you raise the point about co-investors or
   preapproved co-investors to Elizabeth when you -- when
14
15
   you spoke with her about it?
          No, I didn't. Because I Knew (b)(7)(C) was always
16
17
   pushing to sell his investment. And I believe around
18
   this time he had said that he had $500 million ready to
   wire in 24 hours or two days in December and then
20 another 200 in January of 2015.
21
          But we had decided we're not going to -- to do
22 a deal with them, so didn't spend much time on it.
23
          Should I put this away?
24
          No. I'd like to actually discuss a couple of
       Q
25 things in it.
0878
         If you -- if you turn to page ending in 1172.
1
2
      A
          Okay.
3
          Second-to-last paragraph there on the -- it
   says: "In conjunction with its execution of -- of its
   seven-pronged strategic plan, the company is currently
   negotiating the terms of a contract with the U.S.
   government to provide testing for Ebola within U.S.
   airports alongside the U.S. military and aid agencies in
9
   West Africa."
10
       A I see that.
11
       Q Was that a true statement as of December 2014?
12
       A No, it was not.
13
       Q Had there --
14
          And -- and I don't think we made -- and I had
15 made that statement either.
           Had Theranos taken any steps to contract with
16
17 the government to provide testing services for Ebola at
18 airports in late 2014?
          No. We -- we had started discussing -- we had
19
20 submitted our Ebola test to FDA for -- for emergency use
    authorizations. And we had some unique capabilities
   around what we were doing -- again, CLIA, we were point
   of care and all those things -- that we thought, you
24 know, this is going to open some interesting
25 possibilities that others just can't do.
0879
```

1 So we had discussed on what kind of things we would be able to do if we get clearance and if we decide 3 to pursue this path. But I -- to the best of my knowledge, we were not negotiating anything with U.S. 5 government at that point. Actually, there's another point here. It says: 6 7 "In conjunction with execution of seven-pronged 8 strategic plan." 9 You know, I own the strategic plan for the 10 company. I've never used a seven-pronged strategic 11 plan. I don't even know what it is. 12 O Sure. 13 If you -- if you read the paragraph before --14 15 And may -- you can just take a minute and read 16 it to yourself. It looks like it outlines seven points 17 there. 18 Let me know if that's consistent with your 19 understanding of the company's strategic plan. 20 A (Examines document.) 21 You know, they -- they capture the key ideas 22 that we had discussed. But I don't think I said the company had a seven-pronged strategic plan or that we even said, "Oh, yeah. Let's discuss our seven-pronged 25 strategic plan. That's something that I would not 0880 1 use -- I've never used that. 2 BY MS. CHEN: 3 Q Did you ever hear Ms. Holmes say that -- say to 4 BDT that the company was currently negotiating the terms of the contract with the U.S. government to provide 5 testing services for Ebola? A No. I did not hear her say that. 8 BY MR. KOLHATKAR: Q Did you ever hear her say that to any other 9 10 potential investors in Theranos? 11 A No. 12 Did you ever say that to any other potential 13 investors in Theranos? A No, I did not. 14 15 Turn to the next page. Again, the 16 second-to-last paragraph states: "Samples for all tests are run on one proprietary diagnostic machine, an unprecedented capability of testing and a significant 19 technological competitive advantage versus peers." 20 Do you see that? 21 A Yes. 22 Q Was that statement true in December 2014? A Let me read this one more time. 23 24 (Examines document.) 25 Well, it depends on how you read it. 0881 Technically speaking -- actually, no. The word "all" 1 2 would throw it off. So no. The answer is all tests,

no. Not true. Q Did you ever tell BDT that samples for all 4 tests are run on one proprietary diagnostic machine? 5 A No. 7 O Did you ever tell any other investors that? 8 A No. 9 Q Did you ever hear Ms. Holmes make that 10 statement to BDT? 11 A Nope. 12 Because the universe for all tests is 13 4,000-plus testing, including sequencing and lot of 14 complicated stuff that people do. So there's no way 15 anybody in the company would make this statement. Would you ever make the statement that the 16 17 samples for the most common tests are all run on one 18 proprietary machine? 19 A So, technically speaking, the TSPU was capable 20 of doing just that. Not the most common. Some depending on how we laid out the cartridge. So that, of 21 22 course, is possible. That was the whole value add of 23 the company. 24 Our TSPU, in one sample from one cartridge, was 25 able to do hematology, immunology, general chemistry, 0882 1 and nucleic acid amplification test. And here you see that -- that sentence is 3 written in the present test, right? "Are run on one 4 proprietary diagnostic machine." 5 Yeah, that's wrong. Α In other words, at that time samples for the 6 most commonly test could not all be run on one Theranos 8 TSPU. 9 A No. They could be is the different thing. I 10 think you're saying they are being run. 11 Q Were not being run. 12 Were not being run, yes. 13 Q If you turn to the -- to --14 THE WITNESS: Is it possible to take a break, or 15 should we --16 MR. KOLHATKAR: Sure. Take a break. Why don't we go off the record at 2:49 p.m. 17 18 THE VIDEO OPERATOR: Going off the record. The time 19 on the video monitor is 2:48. 20 (Recess taken.) 21 THE VIDEO OPERATOR: We're back on the record. The 22 time on the video monitor is 2:57. 23 MR. KOLHATKAR: So we're back on the record at 2:47. 24 BY MR. KOLHATKAR: 25 Q Mr. Balwani, just to confirm, you -- we didn't 0883 have any conversations with the SEC staff during the break; is that correct? 3 That's correct.

So when we -- when -- before the break we were

4

talking about Exhibit 266. And I'd like to resume by taking a look at the page ending in 1174. And if you look at the second paragraph under "Test Accuracy," it includes a -- a quote there from what appears to be a validation study published by Johns Hopkins in 2010. 10 Do you see that? A I do. 11 12 Q Are those consistent with the -- the quotes you 13 recall from -- from that Hopkins report? 14 Yes, they are. Α 15 And do you agree that it was a validation study 16 by -- published by Johns Hopkins in 2010? 17 A I think -- again, I was not focused on the word 18 "validation study." It was certainly a meeting we had 19 with Johns Hopkins. So I don't know what "validation 20 study" would actually entail. I don't want to 21 necessarily agree to something without knowing what --22 how to define "validation study." 23 O If -- if you look at the next paragraph in 24 brackets there, it says: "Test is in the final stages 25 of preparing a work paper to be published with Stanford 0884 1 University, Johns Hopkins, and three other highly regarded institutions validating the company's technology and processes." 4 Do you see that? 5 A Do. 6 Q Was Theranos in the final stages of preparing a 7 work paper like that in December of 2014? 8 A I wouldn't know. This is something that the chemists or engineers would probably be doing. I usually didn't spend any time on publishing. 11 BY MS. CHEN: 12 Q Who would have been in charge of the work paper 13 that would be published by these institutions at 14 Theranos? 15 A It would depend on which area of the testing. 16 If it is -- but -- so, in general, it would be either (b)(6); (b)(7)(C) 17 (b)(6); (b)(7)(C) and few others. 18 19 I think I mentioned some names last time I was here. 20 But those are the technical leads who would 21 spend time with the researchers figuring out what the protocol would be, what testing would they use, and so on, so forth. I -- I never participated in those 24 meetings. 25 Would they initiate a research study with one 0885 1 of these institutions without you knowing? 2 A It would probably be either -- gone through 3 either Elizabeth or the product managers. But if it is just a simple study, yeah, I don't think I would be 5 involved with that. 6 Q Do you -- did you make a statement to BDT that

```
Theranos was working on preparing a work paper to be
   published with Stanford University, Johns Hopkins, or
9 three other -- three other highly regarded institutions
10 validating the company's technology and processes?
11
          I did not.
12
       Q
           Did you ever hear Ms. Holmes make that
13 statement --
14
       A No.
15
       Q -- to BDT or any other investor?
       A No.
16
17
          BY MR. KOLHATKAR:
18
       Q If you look at the section under "Select
19 Clinical Correlations" at the bottom of the page there,
20 it says: "The company has validated all of its tests
21 versus traditional laboratory and reference methods to
    demonstrate their accuracy. Two examples -- Two example
23
    correlations are provided below."
24
          And then there's a chart for calcium and a
25 chart for cholesterol.
0886
1
         Do you see that?
2
      A I do.
3
      Q
          Did you provide these charts to BDT?
4
          I think they may have been included in the
   discussion slide deck that we had discussed last time.
   And they probably just cut and paste two -- two graphs
7
   here, would be my guess.
         Do you recall reviewing that discussion slide
8
   deck with individuals from BDT?
9
10
       A It is possible I discussed parts of it. Like I
11 mentioned last time, the slide deck was pretty
    comprehensive. So we never ever got -- at least I never
    ever got a chance to walk through the entire deck with
13
14 anybody on the planet.
15
          So it is possible that I -- when I met with
16 them, I walked them through a few concepts, few slides.
17
       O Did you send the slide deck to BDT?
18
       A Either I sent it or I may have given it to the
19 product managers to encrypt it and send it to BDT. So
20 it'd be one of those two.
21
       Q Is the statement that the company has validated
22 all of its tests versus traditional laboratory and
23 reference methods to demonstrate their accuracy, was --
   was that an accurate statement as of December 2014?
25
          No. I think the statement is way too broad.
0887
1
   So I would say no. You can -- you'll always find
2
   exceptions to that. So "all" -- the word "all" is -- is
   a very broad word. So I would say no.
4
      Q Do these charts compare the accuracy of
5
   Theranos's methods to traditional reference methods?
      A I actually don't know. Because R squared -- I
6
   don't know -- this is a -- a topic that's above my pay
```

grade. So the technical people will be able to tell you

9 whether R squared is accuracy or specificity and other 10 things. I don't know how they correlate. 11 Q I guess, if you compare the axes on these 12 charts, one says "Theranos," one says "Bioassay." 13 Do you see that? 14 A I do. 15 O For calcium? 16 A Right. 17 O What is Bioassay? 18 It's probably a vendor whose assay we use to 19 calibrate our assay. 20 And --Q 21 A I'm guessing here so --22 And for cholesterol, the -- the axes are 23 "Theranos Total Cholesterol," and the other axis is 24 "Predicate Total Cholesterol." 25 Do you see that? 0888 1 A I see that. 2 Do you have any understanding what predicate total cholesterol is a referenced to? 4 A This basically says there's a predicate device 5 whose values and Theranos's values had a R square of .9 -- I cannot read the whole thing .96 or 98, something 7 like -- 99. 8 But predicate, what it was, no idea. I have no idea. There's no way I can tell by looking at this. 10 Was Theranos using the TSPU to conduct 11 cholesterol testing in December 2014? 12 A No. 13 O Was Theranos using the TSPU to conduct calcium 14 testing in December 2014? 15 A No. And I don't think -- if these slides came 16 from the discussion deck that says that either. 17 0 Why not? 18 A Because it would say. It says -- says 19 "Theranos." And I didn't -- can't read what's -- what 20 it says here on the next slide. It will say specifically -- if it was comparing a device to device, 22 it'll say something about the device. 23 Even the -- the second graph that you pointed 24 out, the predicate, it doesn't mention the device name 25 here too. So not -- not only doesn't mention anything 0889 1 about Theranos, it also doesn't tell you whether this is 2 Siemens or, you know, whatever else. 3 So -- so you don't view these two graphs as being misleading comparing a Theranos SPU versus a -- as 5 a -- a predicate SPU; is that --6 I -- I'm not sure I understand your question. 7 Misleading in what sense? Because --8 Q You don't view either of these graphs for calcium or cholesterol to reflect the accuracy of a test 10 on a Theranos SPU versus a predicate SPU.

11 I don't read it that way, yeah. For sure. 12 If you turn to the next page, under 13 "Manufacturing," the first sentence there says: "Test 14 currently manufacturers 100 percent of its diagnostic 15 machines and associated consumables in a single plant in 16 Newark, California." 17 Do you see that? 18 A I do. 19 Q Was that an accurate statement in December 20 2014? 21 A Well, the diagnostics machines that we were 22 designing we were manufacturing. But even there, a 23 hundred percent is a strong word. I think we discussed 24 this last time that we were buying simple components 25 from other vendors. Like chips came from Intel. 0890 1 Motherboard came from -- I forgot the name of the vendor. 3 So there's no way it was hundred percent being 4 manufactured by us. 5 Q At the same time, Theranos was using machines that were manufactured by others as well? 6 7 A Yes. Absolutely. Did you tell BDT that Theranos manufactured a 8 hundred percent of its diagnostic machines and 10 associated consumables in a single plant? 11 The way it is written there, no. 12 O What do you recall telling BDT about Theranos's 13 manufacturing? 14 A Well, I don't recall any specific conversations 15 with BDT on that topic. 16 Did you ever hear Elizabeth Holmes say to BDT 17 or any other potential investors that Theranos 18 manufacturers a hundred percent of its diagnostic 19 machines and associated consumables in a single plant? 20 A No. 21 O If you look a couple of sentences down, it says: "Unlike other sector participants, test operates 22 23 a vertically integrated manufacturing model." 24 Sorry. Where are you again? 25 Q Third full paragraph. 0891 1 Α Yes, I see that. And then it goes on: "The company receives raw materials, e.g., plastic, aluminum, etc., and constructs each and every component of the finished products, 5 diagnostic machines and associated consumables." 6 A I see that. 7 Q Was that a true statement as of December 2014? 8 A No. And nobody made that statement either, 9 best of my -- best of my knowledge. You didn't make this statement to BDT? 10 Q 11 A No. 12 Did you ever hear Elizabeth Holmes say it?

13 A No. 14 Do you have any idea how BDT got the impression 15 that Theranos operated in a ver -- vertically 16 manufactured -- vertically integrated manufacturing 17 model and received raw materials and -- and construct 18 everything from there? 19 So most of this, what is written here, is -- is 20 true. The cautionary is I'm -- I'm being careful to say each and every component. Like I said, we absolutely 22 did not make each and every component. And nobody in 23 their right mind would think that we were making our own 24 chips, like CPUs and -- and some other components, which 25 I'm sure there were smaller parts. 0892 1 So -- so -- but, in general, the statement is true that we were buying a ton of plastic and aluminum and making majority of the machines or -- or overwhelming majority of the machine. And consumables 5 hundred percent ours, I think. Q In terms of a vertically integrated 6 manufacturing model, that -- that was specific to the 7 SPU and the -- and the consumables; is that right? A Correct. Yeah. And the nanotainers. We were 10 making those also in-house. We were manufacturing those 11 here in the U.S. 12 BY MS. CHEN: 13 Q Did you ever describe to potential investors 14 that Theranos operated a vertically integrated 15 manufacturing model? Yeah. That's probably right. Again, not 16 hundred percent. But most people are reasonably 17 intelligent to know that we are not manufacturing Intel 19 chips here. 20 BY MR. KOLHATKAR: 21 O Did -- did --22 A But -- sorry. 23 Q I didn't mean to interrupt. 24 A But the answer is yes, we did operate a very 25 highly integrated board manufacturing facility. Yes, 0893 1 that's true. 2 Q Did you ever tell investors or potential investors that Theranos was vertically integrated more generally? 5 A Yes, absolutely. That's true. Was that true even though Theranos was 6 7 purchasing and using third-party machines? So what? And if you look at the paragon in technology industry, the paragon of vertical integration 10 is iPhone. They don't even make it. Foxconn makes it 11 in China. The purpose of a vertical integration as a 12 13 stack, as an overall solution, is not that we are making 14 every single input into the entire stack ourselves. But

the point is the solution that we deliver to the customers is fully vertically integrated.

So from the sample collection units, like T --

18 TSPUs -- sorry -- CTNs, all the software that they use

19 to track it, all of that was -- all the entire stack was

20 controlled by us. The -- it was seamless integration 21 point.

Theranos was the one provider that provided all the services, like Apple does. So it is absolutely true that we were very tightly integrated vert -- I actually

25 don't think any company in the world is as integrated in 0894

1 this industry. There may be few, so I don't want to say 2 any. But most companies are not as integrated as we 3 are.

- 4 Q The -- the Vacutainers that Theranos was using 5 for venous draw was --
- 6 A Right.

7

9

- Q -- those -- it was not manufacturing itself?
- 8 A Oh, of course not.
  - Q Same with the butterfly needles it was using?
- 10 A Absolutely correct.
- 11 Q Would you consider Theranos to be vertically
- 12 integrated with respect to those aspects of its
- 13 business?

14 A If you just separate out those two things, the

15 answer is no. Just like iPhone has a touch screen made

by Samsung, which is their number one competitor. So ifjust say Apple doesn't make the touch screen, the answer

18 is absolutely true.

But can anybody look at Apple iPhone and the entire Apple stack and say vert -- Apple is not probably the most vertically integrated company in the world, if not, at least in the computer technology? Answer is yes. They are considered to be the high bar of vertical integration.

25 It's the same thing here. If you take one 0895

1 component out from our stack saying, "Did you guys make 2 the Vacutainer?" the answer is no.

But if you look at a lot of other components in our stack, all the way from software to CTNs to our

couriers -- we owned our own couriers. We control them.

6 We had -- but clearly we're not making our own cars. We 7 bought them from -- from Toyota.

8 We had a software to track all this stuff. So

9 the end solution, just like Apple, was a fully

10 vertically integrated solution. Our solution, I

believe, was a very tightly vertically integrated

12 solution that had components from other manufacturers.

13 Absolutely.

Q What was the value add, in your view, of

15 providing a vertically integrated solution to retail

16 blood testing?

17 Oh, it's tremendous. It's tremendous. First 18 of all, the patient experience is fantastic. Had we succeeded, we would have -- it would have allowed us to 20 lower the cost even more, literally billions of dollars 21 from taxpayers. 22

Because, as the volume kicks in, it allows us 23 to scale better. And our marginal costs at some point is basically reagents and software. And so scalability 25 is there.

0896

7 8

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16

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22

23

1 The -- I'll give you a simple example. From the moment a patient walks in into a Walgreens location, our entire software stack knew the patient is in that location. So the labs guys, if they wanted to react to those -- those triggers, they could have done that. The 5 6 labs knew the patient.

You know, Mr. Kolhatkar has just walked into the Walgreens location. These are the tests they have ordered.

10 So you could prepare everything up front in advance knowing what is happening. And then the 11 12 payment, the insurance -- the integration that we did with insurance companies allowed our patients to integrate -- interface just with us, one company. Just 15 like Apple does.

So the -- and -- I mean, the call center 17 integration that we did when a person called our call 18 center, we wrote that software. We looked at all the 19 call center software. None of them was designed for 20 labs because labs really is a cottage industry. It grew through mergers and acquisitions.

So there's not any good software to automate call center for labs. We wrote the software. So now, 24 if some patient called us, we recognize the number. We 25 will pull up the record right in front of the 0897

1 technician. And if -- or if it is a doctor calling, we could pull up all the information right in front of you, and we could say, you know, "You have three patients outstanding, you know, John, Jim, and Mary." Chances 5 are you're calling for those three.

So the information was there. Within a split 6 7 second we could pick up the phone and start interacting 8 on why they called us.

9 We also integrated using voice recognition. So 10 the doctor could say -- now, we hadn't launched this yet, but the software was ready because of this 12 integration -- vertical integration -- that a doctor called us, and we could say, "We recognize you calling. 13 14 Are you calling for Joe Doe?"

15 And the doctor could say, "Yes. I would like 16 to add a test." Press the button. Don't even have to 17 talk to a human. All of that was automated. And this get -- gets pushed to the lab, and people can process it

19 automatically. 20 Q What was important to you about Theranos 21 vertically integrating its manufacturing process of its 22 SPUs? 23 A Yeah. Well, there are very significant 24 advantages there too. Medical device industry, unlike 25 the PC industry, is the opposite. And the PC industry, 0898 1 the scale is there. So you could buy stuff from other vendors from China and Taiwan and Korea and -- and Japan because one manufacturer specializes in making one thing that everybody uses. 5 Medical device industry, there's no standardization. Even the software is not standardized. Even when you buy machines from one vendor, like Siemens -- I -- when I made the decision saying, "Okay. Siemens will be strategic partner," I thought all of the 10 machines and software is going to be the same, so 11 training time will be faster. It was not the case. 12 Completely different software. 13 And so we worked --14 You mean between different models of the 15 Siemens machines than --16 A Even within the different incarnations. So 17 when you go from ADVIA 1800 to ADVIA 24 -- 2100, completely different software, right? You actually 19 can -- a person who's an expert on 1800 will be 20 completely confused on 2100. So even that level of 21 integration doesn't exist in the labs. 22 The fact that we had entire manufacturing 23 in-house here right in front of us also give us another advantage, which is R&D. When our R&D guys came up with 25 the new change in our device, we could immediately see 0899 1 the impact on the overall system right there. 2 And actually our headquarter in Palo Alto, we 3 actually had this picture that you see on this page, that big machine there --Q So just for the record, you're referring to the 5 6 picture on --7 A 1175. -- 1175? 8 Q 9 Yeah. 10 This machine is called a CNC machine. This is 11 the machine that is used to make parts. So you take raw aluminum blocks; you put in the machine; you program it; 12 and the machine gives you, you know, whatever you want 14 from it, like something, speak -- speaker or a tray made 15 of aluminum. 16 What we did was we actually had a machine like 17 this sitting in our headquarter in Palo Alto. This is unprecedented. Because any time our engineers made a 19 tiny change in our TSPUs or -- and even BCDs, we could

20 immediately implement that right away.

```
21
          We actually used to have a glass wall between
22 the room that had this machine and our R&D guys.
   Because this concept that you have access to a machine
24 sitting there right next to you is so novel that
25 people -- even though the machine was there, they would
0900
1
   forget about it. So we put a glass wall so they could
   see the machine all the time.
2
         This allowed us to make changes rapidly. Like
3
   any time we had a -- a change to make, even when we were
   doing modifications to the Siemens machines or whatever,
   a tiny change we could just run through the entire
   infrastructure right there, the entire stack will get
   impacted, and how it would impact manufacturing.
9
         We would actually show it to manufacturing
10
   engineers and manufacturing people saying, "Look, we are
    planning on taking these two parts and combining them
   this way. Are you able to make it? Can you scale
13
    around it?"
14
          So this constant communication that was
15 happening between manufacturing the entire stack and our
   R&D guys was just invaluable.
16
17
          This is what allowed us -- or would have
   allowed us to move so much faster than I think most
18
19
   people would have ever imagined.
20
          BY MS. CHEN:
21
         Isn't -- going back to your Apple example.
22
          Isn't -- isn't this a little bit different from
23
   Apple, though, in that, you know, half or more than half
    of Theranos's tests were performed using a process with
25 components that are entirely manufactured by third
0901
1
   parties?
2
      A Same for Apple. Apple's iPhone is, I would
   say, even more than 50 percent made by third parties.
   The entire iPhone -- first of all, you -- you -- agree
5
   with you. I was just loosely using that as an example,
   not exactly hundred percent comparison.
         But Apple's entire phone is made by Foxconn.
7
8
   Apple doesn't even own those factories. So --
9
      Q I mean, I don't know what Apple --
10
       A Yeah. I know.
11
         -- is representing to other people about its
12 manufacturing process.
13
          But the fact remains that you're describing
14 Theranos's manufacturing process as being vertically
15
   integrated.
16
       A
          So --
17
          MR. COOPERSMITH: Hang on a second.
18
          He -- you say he is describing. You're looking
19
   at a document produced by a company called BDT.
20
      MS. CHEN: Oh.
21
          MR. COOPERSMITH: So let's be careful --
22
          BY MS. CHEN:
```

23 I thought Mr. Balwani -- did you respond to a 24 question earlier in which you said you had previously 25 made comments that -- or described the company's model 0902 1 as being vertically integrated? 2 A I would say in -- but you asked me a question. I -- I -- I forgot the exact question. But my point was, in general, if I were to make a comment that our manufacturing process was vertically integrated, that 6 would be true. 7 So have you ever made that comment or -- or 8 statement to anyone --9 I don't know if --Α 10 O -- at the company? 11 I don't know if I've made the comment that our 12 manufacturing process is vertically integrated, but if I did, it would be true. But I don't recall if I 13 specifically did manufacturing. 15 But the other point, the broader question 16 Mr. Kolhatkar asked was: Did you make the comment that our entire stack was vertically integrated in general. 17 My answer to that question was, in general, that was 18 19 true. 20 And yes, I would have made the comment. I 21 don't know if I made this with BDT or not. But, in general, I viewed our stack as vertically integrated because that was true more than any other company I know 24 of in this industry. So --25 Did you believe it was misleading -- it would 0903 1 be misleading to make a comment or a statement to a potential investor that Theranos's manufacturing model was vertically integrated when more than half of its tests were being performed on third-party machines? 5 No, not at all. If we are talking about our 6 manufacturing, the fact that a machine we are buying from Siemens, obviously we are not manufacturing it. 7 8 But this -- if somebody made a comment that 9 Theranos's devices are manufactured in a vertically 10 integrated environment in Newark, the answer is true. 11 Our devices were. And our consumables and OCTs were 12 manufactured by us. 13 BY MR. KOLHATKAR: 14 What about the broader point that you -- that 15 you talked about, that Theranos being the most -- being 16 vertically integrated? 17 A In general. 18 O In general. 19 A Not the manufacturing, just -- yeah. 20 Not -- let me --Q 21 Right. 22 Did you have any concerns that that would be 23 misleading, given that Theranos' was purchasing --24 No. A

```
25
           -- third-party devices?
0904
1
      A No. I -- I think I answered the question. I
   actually am very confident that not only we were
   vertically integrated -- very vertically integrated, I
   actually think there are very few companies in this
   industry who are as vertically integrated as us -- as
6
   us.
7
         Doesn't mean, like I said earlier, that you
   cannot just take Apple phone and say, "Here's a Samsung
   monitor -- Samsung's touch screen. Apple didn't make
10 it." The answer is yeah, Apple didn't make it. But the
   overall stack, the solution, the way iTune works, and
12 the music -- Apple doesn't make iMusic either, right?
   Somebody else buys the music.
14
          But when you use the iPhone, the overall
15 experience is vertically integrated. And Apple is
16 regarded as the vertical -- company that's fully
17 vertically integrated.
18
          So yeah. I mean, I'm comfortable with the
19 statement that we were, in general, a vertically
20 integrated company.
       Q Did you ever hear Elizabeth Holmes use that --
21
22 that phrase to describe Theranos as well?
23
          In general?
24
           In general, just that Theranos was vertically
       Q
25 integrated?
0905
1
         I don't recall any specific incidences. But, I
   mean, if she did, it'd be accurate.
3
          Yeah. My question is just if you recall.
4
          I don't remember.
      A
5
      0
          Okay. If you take a look at the page ending in
6
   117.
7
      A
          1171?
8
          77. Sorry. It's pages entitled "Ebola
9
   Strategic Plan and Summary."
10
          The last sentence of the first paragraph: "As
   such, the CDC asked the company whether it was capable
11
12 of developing a quick response Ebola test using
13 fingerstick technology, a design feature divide by --
14 desired by the medical community, given the propensity
15 of fieldworkers accidentally -- propensity of
16 fieldworkers to accidentally stick themselves with
17 infected needles."
18
          Do you see that statement?
19
       A I do.
20
       O
          Was that a true statement in December 2014?
21
           The way it is written here is not.
22
          What do you mean by that?
23
           Well, we did meet with CDC around Ebola. We
   actually also hosted a conference around Ebola at
25
   Theranos where we had participants from CDC. Actually,
0906
```

(b)(6); (b)(7)(C) flew himself 1 personally to attend that conference -- that meeting. I 2 shouldn't say -- call it a conference. It was a 3 4 meeting. 5 And -- and then there was also representatives from military, some other agencies. I forgot which 6 7 8 So we did discuss the possibility of doing fingerstick nucleic acid amplification test for Ebola. 10 But I wouldn't say that CDC asked the company. We actually said, "We already have an EOA." And either we had already submitted it or it was in works. So we 13 discussed that. 14 Q Did you ever tell BDT that the CDC had asked 15 Theranos whether it was capable of developing a test for 16 Ebola? A No, I did not. 17 Did you ever hear Elizabeth Holmes say that? 18 19 No, I did not. 20 What about the next paragraph down: 21 "Importantly, the company's diagnostic test is capable of detecting the Ebola virus faster than any of its 23 known competitors." 24 Was -- was that true at the time? 25 I don't recall at that time, which time frame 0907 exactly. But it wouldn't surprise me if actually we were. Because we had our Ebola testing -- if you did the combination of how fast we detected and how many -how sensitive we were, I think we were -- at least in our -- in our experiments, we are the best. 6 So it wouldn't surprise me if we made that statement. But I don't remember specifically if I did -- made that statement or not. 9 What about the statement two more paragraphs 10 down: "The company is currently working with the government to finalize a contract which it plans to announce in the coming months, launching in U.S. 13 airports shortly thereafter." A Yeah, I think I answered this question earlier. 14 15 My recollection is I did not make this comment. And I don't know if anybody, best of my knowledge, was talking 17 to the government or not. At the bottom of the page, the last paragraph 18 19 there, it says: "The company believes it will be able to conduct 10,000 tests per day without impacting other segments of their business." 21 22 A I see that. Did you ever provide BDT with this estimate of 23 24 10,000 tests per day? 25 A I don't recall that. 0908 1 Would that have been a fair estimate at the 2 time in December 2014?

```
3
          Well, I'll have to do some math. But I
   wouldn't be able to respond to that right -- right on
5
   the spot.
6
      Q Generally do you have any recollection about
7
   estimating the number of tests per day Theranos could
   conduct for Ebola testing?
8
9
          I don't recall specifically.
10
          If you turn to the next page --
11
       A
         Page 78?
12
       Q Correct. 78 and -- and 79.
13
          If you look at the top of 78, it says -- 79.
14 I'm sorry. The -- the -- it says that: "The contract
    does not limit or restrict" -- I'm sorry. Let me -- let
16 me strike that and start back.
17
          You understand these two pages to refer to
18 Theranos's interactions with Walgreens? You see the
19 Walgreens heading there?
20
       A I see the Walgreens heading.
21
          Do you want me to read the whole thing, or are
22 you just asking --
23
          Sure. Why don't you read from -- from
24 "Walgreens" down to "Arizona Performance to Date" on
25 1179.
0909
1
      A Okay.
2
         (Examines document.)
         And you want me to read all -- sorry -- you
3
   said all the way --
5
      Q Just to "Arizona" maybe.
6
      A Yeah.
7
         (Examines document.)
8
         Okay.
9
      Q And if you take a look at the -- the top of
10 1179, do you understand these two pages to, at least in
    part, reference Theranos's relationship with Walgreens?
12
       A
          Yes, I do.
13
          If you look at the top of 1179, it says: "The
    contract does not limit or restrict test from opening
15
    additional locations if the company chooses to do so."
16
          Do you see that?
17
       Α
          I do.
18
       Q Was that an accurate statement in December
19 2014?
20
       A I believe so, yes.
21
       Q
          How so?
          I mean, we were already opening additional
22
    locations in Arizona. And we were not -- I mean, let me
24 make sure I understand your question.
25
          You're saying the contract with a -- Walgreens'
0910
1 contract does not limit or restrict test from opening
   additional locations if the company chooses to, which is
3
   true.
4
         I'm -- I'm not sure which part of --
```

5 Q I -- I guess was -- was it just the company's choice to open up additional Walgreens locations? 6 7 A But I don't read this as saying Walgreens 8 locations. It says "additional locations." 9 Q Okay. So you read this as referring to other 10 non-Walgreens --11 A Yeah. I mean, the point here will be -- again, 12 obviously, I didn't write it. So I'm just reading 13 what's written here. 14 The point is does the contract limit us from 15 opening any additional locations. The answer is no, it 16 didn't. 17 If, for instance, we had a deal with Safeway 18 and -- I -- I think our amend -- amendment in December of 2013 said in Arizona we had to work with Walgreens if 20 we were going to do retail pharmacies with them. 21 But I believe we -- it didn't limit us from 22 opening additional locations with either Safeway or our 23 own locations, which we started doing. 24 Q Did -- did you tell BDT that the contract 25 did -- that the contract with Walgreens did not limit or 0911 1 restrict Theranos from opening additional locations if -- if it chose to do so? 3 I don't recall making that specific statement. Do you recall hearing Elizabeth Holmes make a 4 5 similar statement? No, I don't. 6 A 7 You see a couple of paragraphs down it says: "As part of the agreement, the two companies will partner together to make test the largest clinical 10 laboratory in the U.S." 11 Do you see that? 12 Yes, I do. 13 And the next sentence says: "This deployment 14 is on target and the two companies anticipating 15 achieving this milestone by the end of 2016." 16 A I see that. 17 Did you -- did you make that statement to BDT? Q 18 A I don't recall. 19 Q Was Ther -- did you ever hear Elizabeth Holmes 20 make that statement to BDT? 21 I don't recall doing -- hearing that either. 22 Was Theranos projecting to partner with 23 Walgreens to be the largest clinical lab in the U.S. by the end of 2016? You know, I don't know. I will have to look at 25 0912 1 the model to see how many locations we were going to be. But at some point, once we hit I think 1,800 locations or something like that total, we would have been larger than Quest. So that would have made us the largest lab. 5 But I don't know if this is what he had in mind or she -- whoever wrote this report had in mind. And if 6

that's what it's referring to and -- and who -- who made the comment and what context. 9 Q Did you feel, in December 2014, that Theranos 10 was on track to open at 1,800 locations by the end of 11 2016 with Walgreens? A Again, I will have to look at the model. I 12 13 don't remember top of my head. 14 The model would best reflect your expectations 15 of --16 Well, whatever assumptions I had made by 17 December of 2014 would be in the model. 18 BY MS. CHEN: 19 Weren't the parties discussing modifying the 20 contract at that time? 21 A Yes. 22 So why was it reasonable for you to believe 23 that the two companies would achieve deploying 24 nationally by the end of 2016 if the companies were in 25 discussions to modify the contract? 0913 1 So first of all, I don't think I made that 2 statement, is the point I made earlier. 3 But going back to your point, that why -- the fact that we were modifying the contract meant we were 5 modifying the terms of the contract, the economic terms and some other details. 6 But both companies had every and full 7 intentions of working together and executing our plan in terms of footprint the way we had planned. So they -- I didn't -- had -- had no reason to believe that there was a change in that. We were modifying the terms for sure, 12 the economic terms back and forth, but not the -- the 13 vision of being in X number of locations. 14 BY MR. KOLHATKAR: 15 If you turn to the next page ending 1180, 16 there's a section on Safeway. 17 Do you see that? 18 A I do. 19 And the second paragraph under Safeway says: 20 "The company projects to launch wellness centers within 21 Safeway stores in 2015 beginning in California." 22 Do you see that? 23 I do. 24 Q Was -- was -- was that an accurate statement as 25 of December of 2014? 0914 1 A I think -- again, I'm not sure about the dates here. We were negotiating with Safeway the launch and -- and -- and negotiate the lessee-landlord model. So this one here says the company projects to launch 5 with Safeway stores in 2015. That part -- that part you view as true? 6 7 A Yeah. I think --8 Yeah. Q

-- that's a fair statement. 10 What about the beginning in California part? 11 That was also true, but we were still 12 negotiating. That may have changed. But I think the 13 expectation was that, if we had modified the contract 14 successfully, we would have launched in California. 15 We had actually already started mapping which 16 Safeway stores we were going to be in I think by that 17 time. So that, too, probably would be true. 18 Q Did -- did you tell BDT that the company was 19 planning on launching wellness centers within Safeway 20 stores in 2015 beginning in California? 21 A I don't recall making that specific statement 22 to these guys. 23 Q Did you ever make it to any other investors? 24 A I -- I don't recall that. 25 Did you ever hear Ms. Holmes tell that to BDT 0915 1 or anyone else? 2 I don't recall that either. Α 3 If you take a look at page ending in 1183. 4 Okay. Α 5 There is a chart that lists company Q projections. 7 Do you see that? 8 A I do. 9 Q Do you recognize these projections? 10 A I will have to look at the model. But my 11 guess -- and this is just a guess -- is that this is a 12 cut-and-paste off some piece of the model and project --13 and pasted here. 14 And if you look at Q4 2014 in the -- in the --15 under the company projections, it -- there -- there --16 there's a list for \$8 million from physicians offices, 17 \$43 million from hospital courier, and 8 million from 18 pharma services. 19 Do you see that? 20 A I see that. 21 Did you expect in December 2014 that Theranos 22 would generate \$8 million in revenue from physicians 23 offices? 24 A I don't recall. I'll have to look at the 25 model. But if I were to guess, I think the answer would 0916 1 be no. 2 O Why is that? Because I think 2014 is when we had just started the physicians office. So I don't know what revenue numbers we would have generated for physicians 6 offices. 7 What about the -- for hospital courier services; did you expect Theranos to earn \$43 million in 9 the fourth quarter of 2014 for --10 No. No, we did not.

11 What about \$8 million for pharmaceutical 12 services? 13 Α That, I don't remember. 14 Did you provide these projections to BDT? 15 A No. Did --16 0 17 I provided them the model. Like I said 18 earlier, they probably cut and paste some sections from the model into this one and put this header on here. 19 20 Do you think you provided them the numbers in 21 the model of physicians offices, hospital couriers, and pharma services? 22 23 A No. When I had shared the model with them, we 24 actually had sat down together, modified the model. And 25 they had introduced this whole concept of quarterly 0917 1 revenue. So this was their idea, not mine. 2 What about annualized revenue; did you share a 3 model with them that -- that projected revenue of over \$40 million for hospital courier services in 2014? 5 No, I did not -- like I said, I did not give them any projections. But whatever is in the model I gave them is -- is what I gave them. So if I had the model, I'll be able to answer that question. With respect to pharmaceutical services, I had 10 understood your answer earlier to be that the model would best reflect your assumptions for how much revenue 12 Theranos would earn from pharmaceutical services at any 13 given point in time; is that fair? 14 A I would say the model would have all the 15 assumptions around whatever business would look like around pharmaceutical companies, yes. 17 And on what -- did you -- in December 2014, did 18 you expect to receive \$40 million in pharmaceutical 19 services in 2014? 20 A I think -- first of all, I think this is not 21 December 2014. This is just entire 2014. 22 But the answer is I don't know. I'll have to 23 look at the model. But from speaking just from memory, 24 the answer is no. 25 O Why not? 0918 1 A Because I don't think in 2014, like I mentioned earlier, we were doing anything -- any significant work for pharmaceutical companies. It just got delayed and 4 delayed and delayed. 5 Q By -- in the first three quarters in 2014, had 6 Theranos generated any revenue from pharmaceutical services? 7 8 A Not that I recall. But I wouldn't know. I 9 could be wrong about that. 10 BY MS. CHEN: 11 So if the financial model that you provided to 12 BDT showed that Theranos was projecting to make

\$40 million in all of 2014, would that not be correct? 14 The financial model would have some baseline 15 numbers that we both sat down and worked on and 16 modified. And like I said, they made -- made some 17 significant changes to the model. 18 But the assumption -- the main underlying 19 assumption behind the model was you could just go and 20 change the title of the months at the top and -- for example, if the model was delayed by a quarter or two 22 quarters, even a year, you just change the headers at 23 the -- at the top, and the model got -- got pushed out 24 by one quarter or two quarter. 25 And because our model was pretty -- you know,

0919

1 and was -- it was heavier on the longer tail side, on the -- on the outside edge of the projections, if you ship -- slip the -- even by one quarter, the entire revenue for the entire year got impacted by, you know, 5 not just quarter but 30, 40, 50 percent in some cases.

So that was kind of the -- the -- the thought behind the model.

6 7

8 Q Okay. Maybe I don't understand your answer to 9 my question.

10 So if your -- the model that you sent to BDT 11 had \$40 million being projected for 2014 for pharmaceutical services, are you saying that that would 13 be incorrect?

14 A Depending on when I -- but answer will be yes, 15 that would have been incorrect.

16 So -- but why would you be sending incorrect 17 information to BDT?

18 A I think I answered this question last time. 19 But the answer is we were using this model -- when I 20 started working with BDT, I -- this was the -- I 21 think -- since January of 2014, I hadn't spent much time 22 with this model and cleaning it up and adding additional 23 assumptions and lot of other information that we had 24 learned between January and September of 2014.

25 So when I sent them the model in October or 0920

1 September of 2014, it was basically model that, you know, I don't think I had shared with anybody in a 3 while.

4 And so I sent it to them saying, "Here's the 5 model. Let's start making changes to this thing, modify 6 it."

7 But it is possible that those numbers were actually there from earlier, not just updated as of October. Maybe two, three, six months from earlier. So 10 I'm guessing here without looking at the different 11 models.

12 So I just sent them a model saying, "This is the model I've used in the past as a planning tool. But 14 we'll use this as a baseline working model."

```
15
          BY MR. KOLHATKAR:
16
       Q In that second past review of the BDT --
17 this -- this memo that you recalled earlier, did you
18 recall looking at these numbers and thinking they are
   out of date?
20
       A No. I didn't -- I didn't look in that much
21
    detail.
22
       O If you see the section under "Retail
23 Pharmacies" under "Arizona," it says: "Test plans to
    add 10 to 15 additional wellness centers in Arizona."
25
       A I see that.
0921
1
      Q
          Was that true in December 2014?
2
      A We certainly were planning to add more test
3
   centers in Arizona, yes.
4
      Q But were there -- were there any plans to add
5
   10 to 15 more?
6
      A Yeah. We actually -- I mean, again, I don't
   know what time frame this is referring to. But in
7
   December or January, we started working pretty
9
   aggressively to add more test centers so that we could
10 have the statewide footprint.
11
          And I believe, in the first five or six months
12 of 2015, we did sign 10, 15, 20 contracts for our
13 wellness centers. But I could be off by -- by few
14 months here and there.
15
          What about for the next sentence down there,
16 the -- the launch in major cities including New York,
17 Chicago, and San Francisco; were those next planned
18 areas of launch for Theranos's presence in Walgreens
19 health clinics?
20
          We -- we had discussed with Walgreens what our
21 next states would be. And like -- I think I mentioned
22 that last time also. New York and San Francisco were on
   top of the list. And we were talking to them about --
24 about Illinois, if we should be launching in Illinois or
25 not.
0922
1
         So those were -- actually, those three states
   that were -- actually, Tennessee was a fourth one we
   were discussing with Walgreens.
3
          The introduction to this section says -- under
4
5
   "Walgreens Location" it says: "Test currently has 41
   wellness centers in Walgreens stores, 40 in Arizona, one
   in Palo Alto, CA, and plans to open wellness centers in
8
   900 total Walgreens pharmacies by year-end 2015."
9
          I see that.
10
           Was -- was that a true statement as of December
       O
11
   2014?
       A I'll have to look at the model. I wouldn't
12
13 remember exactly what I had in the model.
14
       Q But -- but if the model -- your model as of
15 December 2014 reflected that number of stores, that
```

16 would reflect your best estimate of the number of stores

```
that you expected to grow in 2015?
18
       A I will have to look at the model and the
19 assumptions back at that point. So -- I mean, I would
20 not guess what is in the model at this point.
21
       Q Other than looking at the number of stores that
22 are projected to roll out in the model, would there be
    any other information in the model that would answer --
24 answer that question?
25
          Well, it -- it depends on if I -- the
0923
1
   discussions we were having with Walgreens in summer of
   2014 had it all -- had updated all those -- all that
   information in the model by this time frame or not.
4
   I -- I'm not sure.
5
         For example, I think we discussed that -- that,
   in summer of 2014, Walgreens wanted us to be in 2,000
   locations. I don't think I ever entered that
8 information in the model that we'll be in 2,000
   locations in 12 months at Walgreens, even though this is
10 what they had wanted us to do.
11
          So I had not updated the model completely based
12 on the conversations I was having with Walgreens at that
13
   point. So it's possible that my model -- even though I
14 was spending time on it, but I was not spending that
15 much time -- that it is absolutely accurate that
16 captures all the information.
17
       Q Turning to the next page, the Safe -- for
18 Safeway locations, the last sentence there says: "Test
   plans to open 450 centers by year-end 2015."
20
       A
          I see that.
21
           In December 2014, did you believe Theranos
       Q
22
   would open 450 Safeway locations by the year-end 2015?
23
       A I think I will give the same answer. I would
24 have to look at the model and the underlying assumptions
25 to be able to answer this question affirmatively.
0924
         If you look at the -- a couple bullet points
1
   down, it -- under "Requisitions Per Day," it says:
3
   "Consistent with performance in Arizona to date" --
   that's bracketed -- "the company expects each Walgreens
   wellness center to generate 40 requisitions per day."
6
         Do you see that?
7
      A I do.
8
      Q In December 2014 did you expect the company to
   generate 40 requisitions per day in Walgreens?
10
          Our -- I think our model reflected 35, is my
11 recollection. That was what in -- what was in the
12 model.
13
       Q And at the time did you expect Walgreens to --
14 Theranos to be able to -- to generate 35 requisitions
15
   per day at Walgreens?
       A My expect -- actually, expectation was much
16
17
   higher. But like I said, I have a model. I had used 35
```

as a reasonable number. In reality my expectation was

19 that, given the right geography and right execution, we 20 would have been significantly higher than 35. Q If you look at physicians offices a little 21 22 lower, it says -- under "Locations" it says: "The 23 company is currently in 101 physicians offices and plans 24 to be in approximately 700 offices by year-end 2015." 25 Do you see that? 0925 1 A Yeah, I see that. 2 Was Theranos in 101 physicians offices in 3 December of 2014? A I don't think so. 5 Q Did you ever tell BDT that? A No. Did you ever hear Elizabeth Holmes tell BDT O 8 that? 9 A Nope. 10 Actually, let me point out one more thing here. 11 If you look at one line below that, "Requisitions Per Day," it says that the company -- in the middle of that 12 paragraph: "Company assumes four of these requisitions 14 are sent to test resulting in an average of 20 15 requisitions per day per office --16 THE REPORTER: I'm sorry. 17 THE WITNESS: Sorry. 18 THE REPORTER: Resulting in --19 THE WITNESS: Let me read the whole thing: 20 Requisitions Per Day. The average physician office has five doctors, and the average doctor writes 10 to 15 lab 22 scripts per day. The company assumes that about four of 23 these requisitions are sent to test." 24 So if we were in those locations, we wouldn't 25 have to assume anything; we would have that information. 0926 1 So they are kind of contradicting here -- themselves here, too, is the point I'm making here, that -- this is 3 why we -- I'm confident I did not make that statement. 4 Because if I had made the statement, I would not have made the other statement about what my guess would be requisitions per day because I would have known. 7 8 BY MR. KOLHATKAR: O If you turn to the next page under 1185, 10 there's a section on pharmaceutical services. 11 Yes. 12 And it says, under "Pharmaceutical Services, 13 Cartridges": "Test current runs 3,000 samples per 14 month, 100 per day. Given current contracts, it expects 15 this number to increase to 5,000 in the second half of 16 2015." 17 Do you see that? 18 A Yes, I do. 19 In -- in December of 2014, was Theranos running 20 3,000 samples per month for pharmaceutical services?

21 No, we were not. 22 Did he ever tell that to BDT? 23 A Absolutely not. 24 Q Did Elizabeth Holmes ever tell that to BDT? 25 Nope. Not to my knowledge. 0927 1 Do you have any idea how BDT gained the impression that Theranos was running 3,000 samples per months? 4 A My guess is whoever wrote this looked at the model, probably picked up those numbers from the model and entered this over here. Just like they cut and paste the spreadsheet that you showed me earlier, my guess this is where it's coming from. 9 But I don't remember anybody saying this to 10 them. Q Did you ever represent to any investors or 11 12 potential investors that Theranos was currently running 13 samples for pharmaceutical companies in 2014? 14 A Personally, I didn't. I don't recall making 15 that. Did you ever hear Elizabeth Holmes say 16 O 17 something similar? 18 A I don't recall. 19 Did you ever represent to investors that 20 Theranos had developed proprietary devices that were conducting all of the blood tests that a central lab 22 could conduct using a few drops of blood? 23 A No. 24 Did you ever hear Elizabeth Holmes say 25 something like that? 0928 1 THE WITNESS: I said no. 2 THE REPORTER: I didn't hear the answer. Okay. 3 THE WITNESS: "No." Yeah. 4 THE REPORTER: And then your question? 5 BY MR. KOLHATKAR: 6 Q Did you ever hear Elizabeth Holmes say 7 something like that? 8 A No. 9 Q Did you ever represent to investors that 10 Theranos manufactured all of its blood analyzers? 11 In general, if I said that, it would be true. 12 Like I -- we discussed earlier the analyzers that we 13 designed, the TSPUs, we did manufacture them. 14 O Did you ever represent to investors that 15 Theranos manufactured all of the blood analyzers it was 16 using in the CLIA lab? 17 A No. 18 Did you ever hear Elizabeth Holmes say 19 something similar? 20 A Nope. 21 Did you ever represent to investors that Theranos was voluntarily seeking FDA approval of its

23 tests? 24 A Personally, I don't recall saying exact those 25 words. 0929 1 Q Did you ever hear Elizabeth Holmes say 2 something like that? A I don't recall specifically that. 3 4 Did you ever represent to investors that Theranos was seeking FDA approval of its tests 5 voluntarily because it was the gold standard or highest standard? 7 8 A Again, I don't use -- I -- I don't know if I used exact those words or not. But this concept that we 10 as a clinical lab were seeking FDA approval voluntarily was true. So we would have -- that statement saying 12 that would not be inaccurate. 13 And yes, FD -- I do consider FDA as a gold 14 standard. So again, I don't remember saying that. But 15 if I said that, that would be a reasonable thing to say. 16 And -- and, in my mind, that is true. 17 I guess do -- do you remember saying something along those lines to any investors or potential 18 19 investors? 20 A No. That's the first thing I said is no, I 21 didn't. Q Did you ever hear Elizabeth Holmes say 22 23 something along those lines? 24 A No. 25 Q Did you ever represent to investors that FDA 0930 1 approval of Theranos devices was not required? Me personally? No. 3 Did you ever hear Elizabeth Holmes say that? Q I don't recall that statement. 5 Did you ever tell investors that technology demonstrations of a Theranos fingerstick would be run on devices manufactured by Theranos? 8 A If that were true, then -- I mean, I don't recall saying that specifically again. Sorry. Let me answer that question first. Specifically, no. Q Do you recall Elizabeth Holmes ever specifying 11 12 that the TSPU would be the device used to run a tech 13 demonstration? A I don't specifically remember her in any one 14 15 instance. 16 But like I was about to say, in general, if 17 that were true, then that would be a true statement. 18 O Did you ever represent to investors that 19 Theranos had grown its business from contracts with the 20 military? A No. 21 22 Q Did you ever hear Elizabeth Holmes say 23 something like that? 24 A No.

```
25
          Following the Wall Street Journal coverage in
0931
1 sort -- sort of October 2015, did you receive any
   complaints from any investors?
3
      A Personally, I don't know of any. I don't
4 recall any.
5
         I mean, sorry. Let me rephrase that.
6
         In 2016 obviously PFM was one. But besides
7
   that, I personally did not hear from anybody.
8
         Setting the PFM aspect aside, did -- did any
   other investors complain about the accuracy of the
10 information you provided to them?
11
       A Not -- not to me, no.
12
          When did you leave Theranos?
       0
13
       A I think my last day at the company was May 19th
14 or 20th of 2016. But I had six weeks of PTO. And I
15 used that to be available for the company in case if
16 there's anything they needed from me. But I did not go
17 to the office during those six weeks.
18
          So that would -- that took me to first week in
19 July was my last official day.
20
       Q Why did you leave Theranos in 2016?
21
       A I was thinking about leaving Theranos because I
22 was burnt out. I was working very long hours,
   unfortunately. And my passion is product, spending more
24 time building products and technology and software. And
25 more and more, as the company grew, I got less and less
0932
   chance to do that.
1
2
         So I started discussing that with Elizabeth
   that at some point either I was going to take a very
   long sabbatical and come back or just leave the company.
5
      Q Did Elizabeth Holmes ask you to leave Theranos?
6
      A No, she did not.
      Q Did the board ask you to leave Theranos?
8
9
         MR. KOLHATKAR: I'm going to take a quick break. Go
10 off the record at 3:51.
11
         THE WITNESS: Okay.
12
         THE VIDEO OPERATOR: Going off the record. The time
13 on the video monitor is 3:49.
14
          (Recess taken.)
15
         THE VIDEO OPERATOR: Back on the record. The time
16 on the video monitor is 3:56.
17
          BY MR. KOLHATKAR:
18
       O So, Mr. -- Mr. Balwani, just to confirm --
19 we're back on the record at 3:56.
20
          We didn't have any substantive conversations
21
    during the break; is that correct?
22
          That's correct.
23
          Changing topics for a minute. The -- to a
24 couple of Theranos policies.
25
          Did -- did Theranos have reimbursement policies
0933
```

- for personal expenses? 2 Reimbursement policy for personal expenses. 3 Like -- like if you -- if you -- did Theranos maintain corporate cards? 5 Yes. 6 O And did it have policies on how the company 7 should be reimbursed for personal use of those cards? 8 A Yeah. Should be only used for business 9 purposes strictly. 10 Q Who -- who had to approve items expensed to the 11 corporate card? 12 A It depending -- depended on the -- not too many 13 people had a corporate card. But it would -- it would go to the manager of the person who would approve those expenses. Otherwise, the person will have to pay out of 16 pocket. 17 So if somebody reported to me, charged 18 something on the card, it'll come to me for approval. And if it is somebody reported to that person, it will 19 go to them for approval. And --21 And we -- we spent some time talking about the 22 people who reported to you -- to you last time. And I want to kind of revisit that. 24 But do you have a general recollection of what 25 level of seniority a person would have a corporate card? 0934 A We had -- like I said, very few people or 1 people who had to do a lot of traveling for business. So product managers did. But they used to report to me, so I got to see their expenses. 5 And I think there was one or two people in supply chain who had made -- had that card. There was 6 one -- we had general managers in Arizona who had those cards. They were using for, again, ordering food or 9 other supplies for the office. 10 And what were the mechanics of reimbursement Q 11 there? 12 Would the company pay the -- the -- the card; and then, if there were personal expenses on it, the employee would pay the company back? Or --15 A Yes. That's -- that's how it worked. That's 16 my understanding, yes. 17 Q Did the same policy apply to you and 18 Ms. Holmes? 19 A Yes. 20 O Who reviewed Ms. Holmes's corporate card 21 statements? 22 A I don't know. 23 Q Not you. 24 A Not me. BY MS. CHEN: 25 0935
- 1 Q If there was a lower-level employee who would 2 have the corporate card and they had a -- a manager,

after that manager approved those expenses, would it then be reviewed again by somebody else? 5 A You know, I think, if there was a certain expense that was flagged by the controllers, the -- the 6 7 people in the finance team, then it will come to me. And that did used to happen. But it wasn't often. 8 9 I mean, primarily that's because we only give 10 cards to very few people. And the people who had it, 11 you know, I consider them very honest and responsible 12 people. So it was not a big worry. 13 So the managers would approve the expenses; it 14 would then go to the controllers; the bill would be paid 15 unless the controllers flagged an issue for you. 16 Is that how it worked? 17 I don't know how the process worked. But I'm 18 just describing from a business perspective that a person, A, used the card for something. Then their 20 manager would approve it. And if it is a reasonable 21 expense, then it would go through, theoretically 22 speaking. But if it was something that the finance team 23 flagged, then it'll come to me. 24 But --25 Okay. Q 0936 1 A -- that's a theoretical scenario. Because most 2 people who had cards, like I said, were either reporting to me -- I think -- or -- or Elizabeth. I don't think their direct reports are too -- there are too many people who -- whose direct reports had cards. At least 6 I don't remember. 7 And did the employee who was -- who had the expenses, did they have to submit something on a form 8 showing, you know, here are the charges on the card that were for business purposes, and here's the justification 11 for it? 12 Was there any paperwork that employees needed 13 to submit to the company? A I believe so. There was expense form that 14 15 employees had to submit. But I don't know how it worked 16 in relationship to the corporate card. So those are 17 maybe two different things. 18 BY MS. WINKLER: 19 When you say someone in finance might have 20 flagged something, who would have -- who were those 21 people in finance who would look at these things? (b)(6); (b)(7)(C) 22 who used to look at it. She may have subordinates who probably 24 looked at her -- for her. I don't know the process. 25 But when it came to me, it would usually be 0937

1 finance will give it to my assistant saying, "Sunny

to me then in that case.

3

4

needs to look at these and approve these." It will come

But like I said, in most cases the cards were

5 really with people who were either directly reporting to 6 me or Elizabeth. So this additional tier was -- it didn't really exist. Because, by definition, then everything came to me or Elizabeth first. And I actually would say probably to me. Because Elizabeth 10 was busy. They would hand off the documents to (b)(6); 11 (b)(6); (b)(7)(c) and in the evening I would look at those. 12 BY MR. KOLHATKAR: 13 Q Were you ever asked to review any of 14 Ms. Holmes's expenses on -- by the controller or by 15 anyone in the finance department? 16 A No. 17 Do you know if Theranos's corporate card was 18 used for Ms. Holmes's personal expenses? 19 A I would -- I -- I don't know how to describe 20 "personal expense." 21 But you mean nothing to do with business, just 22 for like our shoes? 23 O Clothing, shoes, other things like that. 24 A I doubt it, no. I would not think that 25 clothing and shoes was included. But -- but we did used 0938 1 to work long hours. So food would be included, groceries. They would -- because I never went home most times. My -- my refrigerator in the office. So food was delivered there. So that would be on the company card because I was in the office. 6 So those things would be there. But I doubt 7 shoes and clothes would be on the card. 8 Q I guess do you know if -- if Theranos's 9 corporate card was used for Ms. Holmes's personal 10 expenses? 11 Well, again, I'm making sure -- if you're 12 describing personal expenses as nonbusiness-related 13 shoes and clothes type of stuff, then to the best of my 14 knowledge, the answer is no. 15 But obviously I didn't look at every expense 16 report, so I don't know. 17 BY MS. WINKLER: 18 Do you recall any specific instances where you 19 actually did tell one of your subordinates that, "The 20 company is not covering this expense. You have to pay 21 it back"? A Yes, I did. 22 23 Q Okay. 24 Yeah. That happened. Yeah. 25 Is there a particular employee that comes to 0939 1 mind? A No particular employee. But sometimes people 2

will go to a conference, and they'll buy a ticket a certain way. And I will reject it saying, "No. You

should have bought a cheaper ticket." Or I'll give them a warning shot saying, "Next time, if you do this,

3

5

```
you're on your own."
8
          But yeah. I -- I used to look at that
9
   information, unfortunately, yeah.
10
          BY MS. CHEN:
11
       Q Did you ever use your corporate card for
12 personal expenses?
13
       A
          No.
14
           Did you have a personal assistant at Theranos?
15
           Yes. We both did personal -- had personal
16
    assistants.
17
       Q
           Who -- who was your personal assistant?
18
           Initially we used to share one. Her name was
19
   (b)(6); (b)(7)(C) I forgot her last name. Then for last two
    or three years (b)(6); (b)(7)(C)
20
21
           And who were Ms. Holmes's assistants?
           This lady, her name was (b)(6); (b)(7)(C) I forgot her
22
    last name -- and (b)(6); were her assistants.
23
           Is this (b)(6); (b)(7)(C)
24
25
           Yes. Those are the right names.
0940
           And then (b)(6); (b)(7)(C)
                                is that (b)(6); (b)(7)(C)
1
      Q
2
           Yes. But there were other assistants also.
3
   Because obviously over last seven, eight years we had
   other assistants. But this is what I -- the last two or
5
   three that I remember.
6
          Did you ever ask either (b)(6); (b)(7)(C)
                                                       to
7
   help you with your personal errands?
8
           All the time. That was their job.
9
           What did -- what did they do for you?
10
           Anything that would save me time that I can put
11 into the company.
12
          So there were times where (b)(7)(C) actually
13
    brought measurement tapes to measure my collar and my
14 sleeves and my waist because I was running out of
15 shirts. And she went and bought shirts for me.
16 Obviously I paid for the shirts. But I didn't have to
17
    go to the mall. So it saved me an hour and a half.
18
          Every day I went from home to office. And I
19 had this addiction to Peet's coffee. And I would go and
20 pick up Peet's coffee. But that would be 20-minute
    detour. So over 30 days, that's 600 minutes. Plus
22
    during the lunch I needed another cup of coffee. So
23 it's about thousand minutes a month. That's, you know,
    full day or two of productive time. So I would ask my
25 assistants to do that for me.
0941
1
          Sometimes my shower would leak at home, and
   plumber will give me a four-hour window. I didn't want
   to be there. I want to be in this office. So I would
   send my assistant saying, "You go sit there. And if I'm
5
   needed, then call me when the plumber is there. Or you
6
   just deal with it so I don't have to deal with it."
7
          So pretty much anything that would save me time
8
   for work I would delegate to my assistants.
```

## BY MR. KOLHATKAR: 10 Q It was always your practice then to reimburse 11 the company for whatever actual services, right, the --12 the plumber in that instance or the coffee? 13 A Oh, yeah. Yeah. No. Those were -- that was 14 my money. I would actually give her my card. And 15 they -- those charges would show up on my card. I used 16 to review my own cards too. So yeah. Absolutely. Now, I would -- I would not charge company 17 18 anything. I mean, I was -- when I joined the company, I 19 had asked the company to pay me a dollar a year until 20 the company went -- was breaking even. So I had no 21 desire to take anything from the company. 22 BY MS. CHEN: 23 Were your assistants authorized to use your 24 personal credit cards? 25 A Yes. My personal assistants knew my passwords 0942 1 to my credit cards, my airlines. They knew my plumbers. They knew pretty much everything. 2 Q And did you use your personal assistants to 3 perform work -- you know, home improvement work 5 around -- around your home --6 A Yeah. 7 -- as well? 8 Any project that I had that would, like I said, save me time, I would delegate to them. So I would 10 initiate the project saying, you know, my gate is broken, for example. There was one time my door broke. 12 It was going to be two days' worth of work. 13 When I was at Theranos, of the 20-plus weeks 14 PTO that I got at Theranos, I think I took 20 days maybe 15 at tops. So any time that I could save and put in the 16 company, I would. 17 So yeah. I mean, two days sitting at home 18 fixing a door was something I was not going to do. I 19 would rather be at work. And then I would have my 20 assistant go there. 21 Now, I'm giving you examples that kind of 22 piling up. But, in general, I would say my personal assistant or my secretary was spending maybe 20 percent of her time on nonoffice, quote/unquote, work. But

25 everything else was being done in the office.
0943
1 It's just that I had one point of contact who
2 was managing my personal life so I could just delegate

everything to her.
 Q And that 20 percent/80 percent split between
 personal versus professional tasks, was that sort of
 similar to how Ms. Holmes was using her personal
 assistants as well?

8 A I wouldn't know, but I would guess that's about 9 right. I mean, quite honestly, I didn't have much of a 10 personal life. So there was not much work to be done.

```
11
          The only time it was needed was when something
12 broke. I didn't really do home improvements for the
13
    sake of doing home improvements. I didn't have the time
14 for that. Because I would have -- home improvements
15 require your time. But I didn't do that.
16
          But either things broke or something is
17 radically, you know, off, then I would delegate to my
   assistant, say, "You deal with it. Here's my plan.
19 This is what I want you to do. But now go and do it."
20 Yeah.
21
       Q Were you aware that one of the personal
22 assistants was doing -- was hiring contractors and
23
   interior designers for your home?
24
       A
          Yeah, yeah.
25
       Q
           Okay. I was just trying to square that with
0944
1 what you just said, which is that you wouldn't be doing
   home improvement work, but it's only if you were doing
   home repairs that you would ask.
4
      A Yeah. I had a need --
5
      Q So I was just --
      A Sorry. I didn't mean to interrupt.
6
7
         THE REPORTER: Sorry. Sorry.
8
     MS. CHEN: Yeah.
9
         THE REPORTER: Start again.
10
          THE WITNESS: There was -- there was --
11
      MS. CHEN: Do you need me to --
12
          THE REPORTER: Yeah. Go ahead. Because it got cut
13 off.
14
      MS. CHEN: Okay.
15
          BY MS. CHEN:
16
          So I was trying to square what you just said
17 with -- with your prior statement, which is that you
   would ask your assistants to help with home repairs but
19 not home improvement tasks.
20
          So are you now saying that your assistants also
21 helped with home improvements --
22
       A Yeah. I think --
23
       Q -- work?
24
       A -- we are using semantics here. The -- the net
25 effect was there were certain areas of my house where
0945
1
   either the furniture was broken -- I don't remember
   exactly what project this was. But this was certainly
   something that needed some upgrade. And that would have
4
   taken my time.
5
         And the net net of this thing is my time. That
6 was the valuable commodity here, at least I thought.
   And -- and so anything that would save me my time. For
   example, if I had a space in my room where I had no
   furniture, and when people came, you know, a couple of
10 times, they had to sit on the floor and -- which was
11
    fine with me, but other people don't like it.
12
          So I had -- you know, I had my assistant,
```

```
13 saying, "Go find me some furniture that I could put in
14 the room." So I would consider that as an upgrading, a
15 necessity that I would have spent my time.
16
          Other examples would be, you know, my niece's
17 birthday. You know, she's four. I -- I didn't want to
18 spend time buying a birthday gift for her. I would give
19 it to my assistant saying, "You go and buy something."
   She bought me a card. I just signed it and showed up
21
    for the birthday. So that saved me, you know, two,
22 three hours.
23
          So stuff like that was all delegated to her.
24 The important thing is, it saves me time, I would ask
25
    somebody else to do it.
0946
1
         BY MR. KOLHATKAR:
2
      Q During your time at Theranos, were -- were you
   in a relationship with Elizabeth Holmes?
3
4
      A Yes, I was.
5
      O I mean, just approximate just kind of start and
   end times for that relationship, if -- if you're able to
7
   provide it.
8
      A Yeah. I would say 2004 is when we started.
9 We were in a relationship. And then 2016 is when it
   ended. And during that time, you know, we were kind of
11 in and out of relationship few times. But that's the
12 ballpark.
13
       Q And is it -- would you say for the majority of
14 that time from 2004 to 2016 were you living with
15 Ms. Holmes?
       A
16
          Yes.
17
       O
           When in 2016 did the relationship end?
18
           When I left the company. We were kind of
19
    drifting apart, but we were -- we didn't have time to
20
    move out. So -- but I was still working; she was still
21
    working.
22
          And then around May when I was leaving, you
23 know, that became the time that -- that we stopped
    living together.
25
           The -- did you ever disclose your relationship
0947
1
   with Ms. Holmes to investors at -- at Theranos?
2
      A I believe that some investors who had -- who
   were on the board, like (b)(6); (b)(7)(C)
                                        And the other --
   the original board members had also included a couple of
   investors, like (b)(6); (b)(7)(C)
                              and I think others. So they
6
   knew about our relationship.
7
          Personally me talking to investors one-on-one
8
   telling them my relationship, no, I didn't.
          Anyone in the seed two round that you can
9
10 remember that you discussed it with?
          Except for \binom{(b)(6)}{(b)(7)(6)} I don't think so.
11
12
           Okay. Do you maintain any securities or
13
   brokerage accounts?
14
       A Yeah, I do.
```

```
15
      Q Just -- do you recall at what institutions?
16
      A Fidelity and Charles Schwab.
      Q Any others that you can remember off the top of
17
18 your head?
19
      A No. Those are those two.
20
      O
         What about bank accounts?
21
          Yes, I have at Citibank. I have one with Union
22 Bank of California that I haven't used in 25 years. I
23 have couple of accounts outside the U.S. with Citibank
24 in India. (b)(6); (b)(7)(C)
25 (b)(6);
          And I have an account in Singapore in -- at DBS
0948
   Singapore. It's a bank -- checking account.
1
2
      Q Do you maintain any foreign securities or
3
   brokerage accounts?
      A Foreign securities.
4
5
         Outside the U.S., you mean?
      Q Correct.
6
      A No.
7
8
         Yeah, that would be foreign. Sorry.
9
         Mr. Balwani, are there any answers to questions
10 that you'd like to clarify at this time, either from
   today or from -- from our prior days of testimony?
12
      A No. I think I've tried to answer the best I
13 could.
14
         MR. KOLHATKAR: Mr. Coopersmith or Mr. McKay?
15
         MR. COOPERSMITH: If we could have a couple minutes
16 off the record, then we'll -- I'll let you know the
   answer to that question.
17
18
         MR. KOLHATKAR: Okay. Great.
19
         MR. COOPERSMITH: Okay.
20
         MR. KOLHATKAR: We'll go off the record at 4:13 p.m.
21
         THE VIDEO OPERATOR: Going off the record. The time
22 on the video monitor is 4:12.
23
         (Recess taken.)
24
         THE VIDEO OPERATOR: We're back on the record. The
25 time on the video monitor is 4:16.
0949
1
         MR. KOLHATKAR: So back on the record at 4:16.
2
         BY MR. KOLHATKAR:
3
      Q Mr. Balwani, we didn't have any conversations
   with the staff during the break; is that correct?
4
5
      A That's correct.
6
         MR. KOLHATKAR: Mr. Coopersmith?
7
         MR. COOPERSMITH: Yeah. Thank you. We just have a
8
   few questions. So thanks for that opportunity.
9
                EXAMINATION
10
         BY MR. COOPERSMITH:
11
      Q Mr. Balwani, first question is: Did you own
12 stock in Theranos?
      A Yes, I did.
13
      Q And did you ever sell any of that stock?
14
      A Never did.
15
16
         Did you ever try to sell any of that stock?
```

```
17
         Never.
       A
18
       O
          Did you earn a salary in your position at
19 Theranos?
20
         Yes, I did. When I joined the company, I had
21 requested the board to pay me a dollar a year until the
22
    company was profitable.
23
          For some strange reason, board forced me to
24 take some salary. So I agreed on $99,000 a year, which
25 is what I got paid for I believe first five and a half
0950
1 years.
2
         And in the last year, board increased that from
   99,000 to 200,000 year.
4
      Q When you say "the last year," you mean in 2015
5
   and 2016?
      A Correct. Yeah.
6
      Q Okay. Did you ever ask for a salary increase
7
   during your time at Theranos?
9
      A No, never did.
10
       Q Did you -- and I think you testified about this
    during the first day of your testimony, Mr. Balwani, but
12
    did you provide a -- a loan guarantee to Theranos?
13
       A I did.
14
       Q Did you earn any interest or other compensation
15 provided in that loan guarantee?
       A I didn't earn any interest. I think company
16
17
   gave me some stock options or warrants at some later
18
   point, but it was minuscule.
19
       Q Okay. Did you ask for interest?
20
          No, I never did.
21
          During your time with Theranos, generally what
22 was your workday like?
23
       A From the moment I woke up --
24
          MR. KOLHATKAR: I guess -- sorry.
25
          Is there any -- any particular time frame for
0951
   that question or --
1
2
         MR. COOPERSMITH: During the time he was working at
3
   Theranos.
4
         MR. KOLHATKAR: Okay.
5
         THE WITNESS: In general, I --
6
         MR. COOPERSMITH: In general.
7
         THE WITNESS: -- can answer, from the moment I woke
8 up, I was focused on Theranos and till the time I went
   to sleep. So it would be, you know, whenever I went to
10 sleep basically. I didn't take much time off and didn't
11 really take too many vacations.
12
          BY MR. COOPERSMITH:
13
      Q Generally when did you wake up, and when did
14 you go to sleep?
15
       A Depending on -- depended on when I went to
16 sleep the night before. But I would say, you know,
17
    7:00, 8:00-ish, 8:30 I would wake up. Within half an
18 hour I'd be at work depending on if I'm stopping at
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19 Peet's or not.
20
          But -- and then I would be at the office till,
21 you know, 9:30, 10:00, 11:00, sometimes midnight. I'd
22 be eating all my meals, breakfast, lunch, dinner, snacks
23 at office.
24
       Q Okay.
25
          And also same on weekends. Most of my weekends
0952
   also went into working.
1
2
      Q Okay. Thank you.
         When you were at Theranos, did you at times
3
   spend your own funds for Theranos business-related
5
   purposes?
6
      Α
         I did.
7
          Did you always seek reimbursement from the
   company for that?
9
      A No, I did not.
10
       Q Did you try to even keep track of how much you
11 were spending?
12
       A No, I did not.
13
          Do you have any -- as you sit here today, any
14 ballpark estimate of about what magnitude of money you
15 would have spent on the -- behalf of Theranos that you
16 never asked for reimbursement for?
17
       A I mean, conservatively speaking, I would say
18 tens of thousands.
          My -- my -- in my -- mentally, I had
19
20 accepted the amount that -- the salary that the board
21 had forced me to take, the 50-, 60,000 net of the
    $99,000 I was going to try to spend it on my business
23 expenses. But I never, you know, tracked it.
24
          MR. COOPERSMITH: Okay. That's all I have.
25
          MR. KOLHATKAR: Okay. Just to clarify a couple of
0953
1 things.
2
         BY MR. KOLHATKAR:
3
      Q I guess what kind of business expenses did you
   have in mind there that you were spending but not
5
   getting reimbursed for? Just --
6
      A Sure.
7
      Q
          -- to the extent you can --
          Yeah. I mean, for example, I would buy books
   for my training; go to conferences, seminars. Even when
   I was traveling, lot of times I was using my personal
    card for my airline, for my food, for my hotel.
12 Especially early on, you know, I would just use my
13 personal card.
14
          I would also use my miles to, you know, upgrade
15 things. Me, when -- and I never expensed any of that to
16 the company. And I'm sure there are other things too.
17 Like -- I don't remember, but those would be some
18
   examples.
19
       Q And -- and you sort of described a long period
20 of time for your -- your average day at Theranos.
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21
          Would you say that was consistent from the time
22 you started at Theranos to the time you left?
23
       A Yeah. I think that's fairly consistent. Now,
24 I'm sure there were days in between when I was sick or
25 something. But in general, that was my day. That was
0954
1 my life, yeah.
2
      O Sure.
3
         The -- your ownership in Theranos's stock, I
   apologize if you answered this last time, but do you
5
   recall how many shares you owned in Theranos --
      A I don't --
6
7
      Q -- at the time you left?
8
         -- don't remember the exact number.
9
          Do you remember it as a percentage of the -- of
10 the ownership of the company?
11
       A I think, first of all, it was all stock
12 options. And I think it's maybe 5 percent or 6 --
13
    around 5 percent of the company.
14
       Q By the time you left?
15
       A Yes.
16
          MR. KOLHATKAR: Mr. Balwani, I think we don't have
17 any further questions for you at this time.
18
          However, we may call you again to testify in
19 this investigation. Should it be necessary, we'll
20 contact your counsel.
21
          We really do appreciate you taking the time
22 to -- to answer our questions over the past -- over the
    several days that you've been with us. So -- so thank
24 you for that.
25
          And we're off the record at 4:22 p.m.
0955
1
         THE WITNESS: Thank you.
2
         THE VIDEO OPERATOR: This marks the end of DVD No. 3
3
   and today's testimony.
4
         The time on the video monitor is 4:21.
5
         (Whereupon, at 4:21 p.m., the examination
   was concluded.)
               * * * * *
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0956
1
         PROOFREADER'S CERTIFICATE
2
3
   In the Matter of: THERANOS, INC.
                  Ramesh "Sunny" Bulwani
   Witness:
5 File Number:
                    SF-04030-A
                 Thursday, September 7, 2017
6 Date:
                  San Francisco, California
   Location:
7
8
      This is to certify that I_{\bullet}^{(b)(6); (b)(7)(C)}
9
10 (the undersigned) do hereby swear and affirm that
   the attached proceedings before the U.S. Securities
   and Exchange Commission were held according to the
13 record, and that this is the original, complete, true
14 and accurate transcript, which has been compared
   with the reporting or recording accomplished at the
15
16 hearing.
17
18
19
20
   (Proofreader's Name)
                                 (Date)
21
22
23
24
25
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