

PROCESSED

MAR 27 2007

FORM D

THOMSON
FINANCIAL

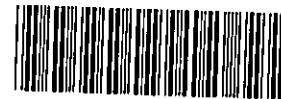
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

1327290

OMB APPROVAL
OMB Number: 3235-0076
Expires: April 30, 2008
Estimated average burden
hours per form 16.00

RECEIVED
MAR 05 2007
OFFICE OF THE SECRETARY

FORM D
NOTICE OF SALE OF SECURITIES
PURSUANT TO REGULATION D,
SECTION 4(6), AND/OR
UNIFORM LIMITED OFFERING EXEMPTION



07048637

Name of Offering () check if this is an amendment and name has changed, and indicate change.)

Subordinated Convertible Note and Warrant Financing

Filing Under (Check box(es) that apply): () Rule 504 () Rule 505 (X) Rule 506 () Section 4(6) () ULOE

Type of Filing: () New Filing (X) Amendment

A. BASIC IDENTIFICATION DATA

1. Enter the information requested about the issuer

Name of Issuer () check if this is an amendment and name has changed, and indicate change.)

Ikaria, Inc.

Address of Executive Offices (Number and Street, City, State, Zip Code)
1616 Eastlake Ave. East, Suite 340, Seattle, WA 98102

Telephone Number (Including Area Code)
(206) 957-7374

Address of Principal Business Operations (if different from Executive Offices) (Number and Street, City, State, Zip Code)
same

Telephone Number (Including Area Code)

Brief Description of Business
Medical products developer.

Type of Business Organization

(X) corporation () limited partnership, already formed () other (please specify):
() business trust () limited partnership, to be formed

Actual or Estimated Date of Incorporation or Organization: Month Year (X) Actual () Estimated
II 2004

Jurisdiction of Incorporation or Organization: (Enter two-letter U.S. Postal Service abbreviation for State:
CN for Canada; FN for other foreign jurisdiction) DE

GENERAL INSTRUCTIONS

Federal:
Who Must File: All issuers making an offering of securities in reliance on an exemption under Regulation D or Section 4(6), 17 CFR 230.501 et seq. or 15 U.S.C. 77d(6).
When To File: A notice must be filed no later than 15 days after the first sale of securities in the offering. A notice is deemed filed with the U.S. Securities and Exchange Commission (SEC) on the earlier of the date it is received by the SEC at the address given below or, if received at that address after the date on which it is due, on the date it was mailed by United States registered or certified mail to that address.
Where To File: U.S. Securities and Exchange Commission, 450 Fifth Street, N.W., Washington, D.C. 20549.
Copies Required: Five (5) copies of this notice must be filed with the SEC, one of which must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.
Information Required: A new filing must contain all information requested. Amendments need only report the name of the issuer and offering, any changes thereto, the information requested in Part C, and any material changes from the information previously supplied in Parts A and B. Part E and the Appendix need not be filed with the SEC.
Filing Fee: There is no federal filing fee.

State:
This notice shall be used to indicate reliance on the Uniform Limited Offering Exemption (ULOE) for sales of securities in those states that have adopted ULOE and that have adopted this form. Issuers relying on ULOE must file a separate notice with the Securities Administrator in each state where sales are to be, or have been made. If a state requires the payment of a fee as a precondition to the claim for the exemption, a fee in the proper amount shall accompany this form. This notice shall be filed in the appropriate states in accordance with state law. The Appendix to the notice constitutes a part of this notice and must be completed.

ATTENTION
Failure to file notice in the appropriate states will not result in a loss of the federal exemption. Conversely, failure to file the appropriate federal notice will not result in a loss of an available state exemption unless such exemption is predicated on the filing of a federal notice.

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Roth, Mark

Business or Residence Address (Number and Street, City, State, Zip Code)

C/o Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue N., Seattle, WA 98109

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Gillis, Steven

Business or Residence Address (Number and Street, City, State, Zip Code)

C/o Ikaria, Inc., 1616 Eastlake Ave. East, Suite 340, Seattle, WA 98102

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Kailian, Vaughn

Business or Residence Address (Number and Street, City, State, Zip Code)

P.O. Box 70, Bodega, CA 94922

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Nelsen, Robert

Business or Residence Address (Number and Street, City, State, Zip Code)

C/o ARCH Ventures, 8725 West Higgins Road, Suite 290, Chicago, IL 60631

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Roberts, Bryan

Business or Residence Address (Number and Street, City, State, Zip Code)

C/o Venrock Associates, 30 Rockefeller Plaza, Room 5508, New York, NY 10112

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Schwab, Andrew

Business or Residence Address (Number and Street, City, State, Zip Code)

C/o 5AM Ventures LLC, 3000 Sand Hill Road, Buidling 4, Suite 230, Menlo Park, CA 94025

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Shaw, David

Business or Residence Address (Number and Street, City, State, Zip Code)

542 Brock Point Road, Scarborough, ME 04074

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Shapiro, M.D., Bennet M.

Business or Residence Address (Number and Street, City, State, Zip Code)

532 LaGuardia Place, Suite 524, New York, NY 10012

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Gantz, Wilbur

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Ovation Pharmaceuticals Inc., 4 Parkway North, Suite 200 Deerfield, IL 60015

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Ornskov, Flemming

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o LifeCycle Pharma A/S, Kogle Alle 4 Dk-2970, Hershholm, Denmark

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Fred Hutchinson Cancer Research Center

Business or Residence Address (Number and Street, City, State, Zip Code)

1100 Fairview Avenue N., Seattle, WA 98109

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

ARCH Venture Fund VI, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o ARCH Ventures, 8725 W. Higgins Road, Suite 290, Chicago, IL 60631

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Venrock Associates IV, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Venrock Associates, 2494 Sand Hill Road, Suite 200, Menlo Park, CA 94025

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

SAM Ventures LLC

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Sam Ventures, 3000 Sand Hill Road, Building 4, Suite 230, Menlo Park, CA 94025

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Szabo, Csaba

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Icaria, Inc., 1616 Eastlake Ave. East, Suite 340, Seattle, WA 98102

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Tomaselli, Kevin

Business or Residence Address (Number and Street, City, State, Zip Code)

3665 Jackdaw Street, San Diego, CA 92103

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

B. INFORMATION ABOUT OFFERING

1. Has the issuer sold, or does the issuer intend to sell, to non-accredited investors in this offering? Yes No
- Answer also in Appendix, Column 2, if filing under ULOE.
2. What is the minimum investment that will be accepted from any individual? **\$23,710.73**
3. Does the offering permit joint ownership of a single unit? Yes No
4. Enter the information requested for each person who has been or will be paid or given, directly or indirectly, any commission or similar remuneration for solicitation of purchasers in connection with sales of securities in the offering. If a person to be listed is an associated person or agent of a broker or dealer registered with the SEC and/or with a state or states, list the name of the broker or dealer. If more than five (5) persons to be listed are associated persons of such a broker or dealer, you may set forth the information for that broker or dealer only.

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States) All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[WA]	[WV]	[WI]	[WY]	[PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States) All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[WA]	[WV]	[WI]	[WY]	[PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States) All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[WA]	[WV]	[WI]	[WY]	[PR]

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

1. Enter the aggregate offering price of securities included in this offering and the total amount already sold. Enter "0" if answer is "none" or "zero." If the transaction is an exchange offering, check this box and indicate in the columns below the amounts of the securities offered for exchange and already exchanged.

Type of Security	Aggregate Offering Price	Amount Already Sold
Debt.....	\$ 5,000,000.00	\$ 3,000,000
Equity.....	\$ 0.00	\$0.00
	<input type="checkbox"/> Common <input type="checkbox"/> Preferred	
Convertible Securities (including warrants).....	\$0.00	\$0.00
Partnership Interests.....	\$	\$
Other (Specify _____).....	\$	\$
Total.....	\$5,000,000.00	\$ 3,000,000.00

Answer also in Appendix, Column 3, if filing under ULOE.

2. Enter the number of accredited and non-accredited investors who have purchased securities in this offering and the aggregate dollar amounts of their purchases. For offerings under Rule 504, indicate the number of persons who have purchased securities and the aggregate dollar amount of their purchases on the total lines. Enter "0" if answer is "none" or "zero."

	Number Investors	Aggregate Dollar Amount of Purchases
Accredited Investors.....	7	\$ 3,000,000
Non-accredited Investors.....		\$
Total (for filings under Rule 504 only).....		\$

Answer also in Appendix, Column 4, if filing under ULOE.

3. If this filing is for an offering under Rule 504 or 505, enter the information requested for all securities sold by the issuer, to date, in offerings of the types indicated, in the twelve (12) months prior to the first sale of securities in this offering. Classify securities by type listed in Part C - Question 1.

Type of Offering	Type of Security	Dollar Amount Sold
Rule 505.....		\$
Regulation A.....		\$
Rule 504.....		\$
Total.....		\$

4. a. Furnish a statement of all expenses in connection with the issuance and distribution of the securities in this offering. Exclude amounts relating solely to organization expenses of the issuer. The information may be given as subject to future contingencies. If the amount of an expenditure is not known, furnish an estimate and check the box to the left of the estimate.

Transfer Agent's Fees.....	<input type="checkbox"/>	\$
Printing and Engraving Costs.....	<input type="checkbox"/>	\$
Legal Fees.....	<input checked="" type="checkbox"/>	\$5,000.00
Accounting Fees.....	<input type="checkbox"/>	\$
Engineering Fees.....	<input type="checkbox"/>	\$
Sales and Commissions (specify finders' fees separately).....	<input type="checkbox"/>	\$
Other Expenses (identify).....	<input type="checkbox"/>	\$
Total.....	<input checked="" type="checkbox"/>	\$ 5,000.00

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

b. Enter the difference between the aggregate offering price in response to Part C - Question 1 and total expenses furnished in response to Part C - Question 4.a. This difference is the "adjusted gross proceeds to the issuer."

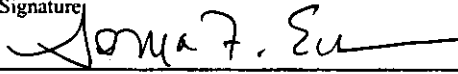
\$ 4,995,000.00

5. Indicate below the amount of the adjusted gross proceeds to the issuer used or proposed to be used for each of the purposes shown. If the amount for any purpose is not known, furnish an estimate and check the box to the left of the estimate. The total of the payments listed must equal the adjusted gross proceeds to the issuer set forth in response to Part C - Question 4.b above.

	Payments to Officers, Directors, & Affiliates	Payments to Others
Salaries and fees	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Purchase of real estate	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Purchase, rental or leasing and installation of machinery and equipment	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Construction or leasing of plant buildings and facilities	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Acquisition of other businesses (including the value of securities involved in this offering that may be used in exchange for the assets or securities of another issuer pursuant to a merger)	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Repayment of indebtedness	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Working capital	<input type="checkbox"/> \$ _____	<input checked="" type="checkbox"/> \$ <u>4,995,000.00</u>
Other (specify): _____	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
_____	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Column Totals	<input type="checkbox"/> \$ _____	<input checked="" type="checkbox"/> \$ <u>4,995,000.00</u>
Total Payments Listed (column totals added)		<input checked="" type="checkbox"/> \$ <u>4,995,000.00</u>

D. FEDERAL SIGNATURE

The issuer has duly caused this notice to be signed by the undersigned duly authorized person. If this notice is filed under Rule 505, the following signature constitutes an undertaking by the issuer to furnish to the U.S. Securities and Exchange Commission, upon written request of its staff, the information furnished by the issuer to any non-accredited investor pursuant to paragraph (b)(2) of Rule 502.

Issuer (Print or Type) Ikaria, Inc.	Signature 	Date February 22, 2007
Name of Signer (Print or Type) Sonya F. Erickson	Title of Signer (Print or Type) Assistant Secretary	

ATTENTION

Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)

APPENDIX

1 State	2 Intend to sell to non-accredited investors in State (Part B-Item 1)		3 Type of security and aggregate offering price offered in state (Part C-Item 1)	4 Type of investor and amount purchased in State (Part C-Item 2)				5 Disqualification under State ULOE (if yes, attach explanation of waiver granted) (Part E-Item 1)	
	Yes	No		Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No
AL									
AK									
AZ									
AR									
CA		<input checked="" type="checkbox"/>	Subordinated Convertible Promissory Notes and Warrants to Purchase Stock - (\$948,429.15)	2	\$569,057.49	0	0		<input checked="" type="checkbox"/>
CO									
CT									
DE									
DC									
FL									
GA									
HI									
ID									
IL		<input checked="" type="checkbox"/>	Subordinated Convertible Promissory Notes and Warrants to Purchase Stock (\$1,914,641.40)	1	\$1,148,784.84	0	0		<input checked="" type="checkbox"/>
IN									
IA									
KS									
KY									
LA									
ME									
MD									
MA									
MI									
MN									
MS									
MO									

APPENDIX

1 State	2 Intend to sell to non-accredited investors in State (Part B-Item 1)		3 Type of security and aggregate offering price offered in state (Part C-Item 1)	4 Type of investor and amount purchased in State (Part C-Item 2)				5 Disqualification under State ULOE (if yes, attach explanation of waiver granted) (Part E-Item 1)	
	Yes	No		Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No
MT									
NE									
NV									
NH									
NJ									
NM									
NY		<input checked="" type="checkbox"/>	Subordinated Convertible Promissory Notes and Warrants to Purchase Stock - (\$1,899,822.15)	3	\$1,139,893.29	0	0		<input checked="" type="checkbox"/>
NC									
ND									
OH									
OK									
OR									
PA									
RI									
SC									
SD									
TN									
TX									
UT									
VT									
VA									
WA									
WV									
WI									
WY									
PR									

END