



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

DIVISION OF
CORPORATION FINANCE

Mail Stop 4628

September 14, 2016

Via E-Mail

Didier Hirsch
Senior Vice President and Chief Financial Officer
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051

**Re: Agilent Technologies, Inc.
Form 10-K for the Fiscal Year Ended October 31, 2015
Filed December 21, 2015
File No. 1-15405**

Dear Mr. Hirsch:

We have limited our review of your filing to your contacts with countries that have been identified as state sponsors of terrorism, and we have the following comments. Our review with respect to this issue does not preclude further review by the Assistant Director group with respect to other issues. In our comments, we ask you to provide us with information so we may better understand your disclosure.

Please respond to these comments within ten business days by providing the requested information or advise us as soon as possible when you will respond. If you do not believe our comments apply to your facts and circumstances, please tell us why in your response.

After reviewing your response to these comments, we may have additional comments.

General

1. We are aware of third party websites reporting that you conduct business in Syria. Section 3.13 of a September 15, 2014 credit agreement filed as Exhibit 10.1 to your Form 8-K filed on the same date can be read to infer that you engaged in or intend to engage in dealings or transaction with a sanctioned country, which the agreement defines to include Syria and Sudan. Syria and Sudan are designated by the State Department as state sponsors of terrorism, and are subject to U.S. economic sanctions and export controls. Your Form 10-K does not provide disclosure about those countries. Please describe to us the nature and extent of any past, current, and anticipated contacts with Syria and Sudan, whether through subsidiaries, affiliates, distributors, resellers or other direct or indirect arrangements. You should describe any products or services you have provided to Syria and Sudan, directly or indirectly, and any agreements, commercial arrangements, or other

contacts with the governments of those countries or entities they control.

2. Please discuss the materiality of any contacts with Syria or Sudan you describe in response to the comment above, and whether those contacts constitute a material investment risk for your security holders. You should address materiality in quantitative terms, including the approximate dollar amounts of any associated revenues, assets, and liabilities for the last three fiscal years and the subsequent interim period. Also, address materiality in terms of qualitative factors that a reasonable investor would deem important in making an investment decision, including the potential impact of corporate activities upon a company's reputation and share value. Various state and municipal governments, universities, and other investors have proposed or adopted divestment or similar initiatives regarding investment in companies that do business with U.S.-designated state sponsors of terrorism. You should address the potential impact of the investor sentiment evidenced by such actions directed toward companies that have operations associated with Syria and Sudan.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable Exchange Act rules require. Since the company and its management are in possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made.

In responding to our comments, please provide a written statement from the company acknowledging that:

- the company is responsible for the adequacy and accuracy of the disclosure in the filing;
- staff comments or changes to disclosure in response to staff comments do not foreclose the Commission from taking any action with respect to the filing; and
- the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

You may contact Jennifer Hardy, Special Counsel, at (202) 551-3767 or me at (202) 551-3470 if you have any questions about the comments or our review.

Sincerely,

/s/ Cecilia Blye

Cecilia Blye, Chief
Office of Global Security Risk

cc: Amanda Ravitz
Assistant Director