

THERMO FISHER SCIENTIFIC INC.  
Form 8-A12B  
March 16, 2017

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

**FORM 8-A**

**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES**  
**PURSUANT TO SECTION 12(b) OR 12(g) OF**  
**THE SECURITIES EXCHANGE ACT OF 1934**

**Thermo Fisher Scientific Inc.**

**(Exact name of registrant as specified in its charter)**

**Delaware**  
**(State or other jurisdiction of incorporation or**  
**organization)**

**168 Third Avenue**  
**Waltham, Massachusetts**  
**(Address of principal executive offices)**

**04-2209186**  
**(I.R.S. Employer Identification No.)**

**02451**  
**(Zip Code)**

**Securities to be registered pursuant to Section 12(b) of the Act:**

<b>Title of each class to be so registered</b>	<b>Name of each exchange on which each class is to be registered</b>
<b>1.450% Senior Notes due 2027</b>	<b>New York Stock Exchange LLC</b>

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), check the following box.

**Securities Act registration statement file number to which this form relates:**

**333-209867**

**(If applicable)**

**Securities to be registered pursuant to Section 12(g) of the Act:**

**None**

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**INFORMATION REQUIRED IN REGISTRATION STATEMENT**

Thermo Fisher Scientific Inc. (the *Company*) has filed with the Securities and Exchange Commission (the *Commission*) pursuant to Rule 424(b) under the Securities Act of 1933, as amended (the *Securities Act*), a prospectus supplement, dated March 7, 2017 (the *Prospectus Supplement*), and the accompanying prospectus, dated August 1, 2016 (the *Base Prospectus*). The Prospectus Supplement relates to the Company's offering of 500,000,000 aggregate principal amount of its 1.450% Senior Notes due 2027 (the *Notes*). The Base Prospectus forms a part of the Post-Effective Amendment No. 1 to Registration Statement on Form S-3 (File No. 333-209867), filed with the Commission on August 1, 2016, which amends the Registration Statement on Form S-3 (File No. 333-209867), filed with the Commission on March 1, 2016.

**Item 1. Description of Registrant's Securities to be Registered.**

The descriptions under the heading "Description of the Notes" in the Prospectus Supplement and "Description of Thermo Fisher Debt Securities" in the Base Prospectus are incorporated by reference herein. Copies of such descriptions will be filed with The New York Stock Exchange.

**Item 2. Exhibits.**

<b>Exhibit No.</b>	<b>Description</b>
4.1	Indenture, dated as of November 20, 2009, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated herein by reference to Exhibit 99.1 to the Company's Current Report on Form 8-K filed with the SEC on November 20, 2009 (File No. 001-08002)).
4.2	Fifteenth Supplemental Indenture, dated as of March 16, 2017, between the Company and The Bank of New York Mellon Trust Company, N.A., as trustee, including the form of the Notes (incorporated herein by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K filed with the Commission on March 16, 2017 (File No. 001-08002)).
4.3	Paying Agency Agreement, dated as of March 16, 2017, between the Company and The Bank of New York Mellon, London Branch, as paying agent (incorporated herein by reference to Exhibit 4.3 of the Company's Current Report on Form 8-K filed with the Commission on March 16, 2017 (File No. 001-08002)).
4.4	Form of 1.450% Senior Notes due 2027 (included in Exhibit 4.2).

**SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

THERMO FISHER SCIENTIFIC INC.

Date: March 16, 2017

By: /s/ Seth H. Hoogasian

Name: Seth H. Hoogasian

Title: Senior Vice President and General Counsel