THERMO FISHER SCIENTIFIC INC.

Reminder: Report on a separate line for each class of

securities beneficially owned directly or indirectly.

Form 5

February 10, 2017

OMB APPROVAL FORM 5 **OMB** UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4 Transactions Reported 1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer Stevenson Mark Symbol THERMO FISHER SCIENTIFIC (Check all applicable) INC. [TMO] (Middle) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) Director 10% Owner X _ Officer (give title Other (specify (Month/Day/Year) below) below) 12/31/2016 Executive Vice President 168 THIRD AVENUE (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line) WALTHAM, MAÂ 02451 _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. 7. Nature of Execution Date, if Transaction Indirect Security (Month/Day/Year) (A) or Disposed of (D) Securities Ownership (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned at end Direct (D) Ownership of Issuer's or Indirect (Instr. 4) Fiscal Year (I) (A) (Instr. 3 and (Instr. 4) or 4) Amount (D) Price Common Â Â 06/30/2016 $A^{(1)}$ 178 50,812 D A Stock 140.37 Common Â Â Â Â 415.21 (2) I By 401(k) Stock

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SEC 2270

(9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| | 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | isable and | 7. Titl | le and | 8. Price of |
|--|-------------|-------------|---------------------|--------------------|-------------|------------|---------------|------------|------------------|--------|-------------|
| | Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transaction | Number | Expiration Da | ate | Amou | ınt of | Derivative |
| | Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Under | lying | Security |
| | (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Secur | ities | (Instr. 5) |
| | | Derivative | | | | Securities | es | | (Instr. 3 and 4) | | |
| | | Security | | | | Acquired | | | ` | ĺ | |
| | | J | | | | (A) or | | | | | |
| | | | | | | Disposed | | | | | |
| | | | | | | of (D) | | | | | |
| | | | | | | (Instr. 3, | | | | | |
| | | | | | | 4, and 5) | | | | | |
| | | | | | | , , | | | | | |
| | | | | | | | | | | Amount | |
| | | | | | | | | Expiration | | or | |
| | | | | | | | | Date | Title | | |
| | | | | | | | | 2 | | of | |
| | | | | | | (A) (D) | | | | Shares | |

of D

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|---|---------------|-----------|--------------------------|-------|--|--|--|
| ·r· | Director | 10% Owner | Officer | Other | | | |
| Stevenson Mark 168 THIRD AVENUE WALTHAM, MA 02451 | Â | Â | Executive Vice President | Â | | | |

Signatures

/s/ Barbara J. Lucas, Attorney-in-Fact for Mark P.
Stevenson 02/10/2017

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The shares were acquired under the Issuer's employees' stock purchase plan in a transaction that was exempt under both Rule 16b-3(d) and Rule 16b-3(c).
- (2) Between February 25, 2016, and December 31, 2016, the reporting person acquired 20.02 shares of TMO common stock under the TMO 401(k) plan.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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