

THERMO FISHER SCIENTIFIC INC.

Form 4

February 28, 2014

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
CASPER MARC N

2. Issuer Name and Ticker or Trading Symbol
THERMO FISHER SCIENTIFIC INC. [TMO]

5. Relationship of Reporting Person(s) to Issuer
(Check all applicable)

(Last) (First) (Middle)
81 WYMAN STREET
(Street)

3. Date of Earliest Transaction (Month/Day/Year)
02/26/2014

Director 10% Owner
 Officer (give title below) Other (specify below)
Chief Executive Officer

WALTHAM, MA 02451

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V | Amount (A) or (D) Price | | |
| Common Stock | 02/26/2014 | | A | | 100,000 (1) | A | \$ 0 297,656.53 D |
| Common Stock | 02/26/2014 | | A | | 56,952 (2) | A | \$ 0 354,608.53 D |
| Common Stock | 02/26/2014 | | A | | 33,300 | A | \$ 0 387,908.53 D |
| Common Stock | 02/26/2014 | | F | | 13,209 | D | \$ 124.28 374,699.53 D |
| Common Stock | | | | | | | 60,830 I By Marc N. Casper 2012 |

Irrevocable Trust

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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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 Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| | | | | Code | V (A) (D) | Date Exercisable Expiration Date | Title Amount or Number of Shares |
| Stock Option (Right to Buy) | \$ 124.28 | 02/26/2014 | | A | 131,500 | (3) 02/26/2021 | Common Stock 131,500 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| CASPER MARC N 81 WYMAN STREET WALTHAM, MA 02451 | X | | Chief Executive Officer | |

Signatures

/s/ Barbara J. Lucas, Attorney-in-Fact for Marc N. Casper 02/28/2014

__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) Shares represent a performance-based restricted stock unit award granted on November 21, 2009, for which the performance criteria have been satisfied.
- (2) Shares represent a performance-based restricted stock unit award granted on February 26, 2013. The Company's Compensation Committee determined on February 26, 2014, that the performance criteria related to this award was satisfied. One-third of the shares vested on February 26, 2014, one-third of the shares vest on February 26, 2015, and the remaining one-third vest on

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February 26, 2016.

(3) The option vests in four equal annual installments beginning on February 26, 2015.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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