

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.

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(9-02)

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		6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)			
					Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			Title	Amount or Number of Shares		
Stock Option (Right to Buy)	\$ 124.28	02/26/2014		A	V	(A)	(D)	(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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