Loewald Thomas W Form 4 February 27, 2013

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 3235-0287

OMB APPROVAL

Number:

Expires:

January 31, 2005

Estimated average burden hours per

response... 0.5

if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

Check this box

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 See Instruction

1(b).

Common

Stock

02/25/2013

(Print or Type Responses)

1. Name and A Loewald Th	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) 81 WYMA	(First) (Middle) 3. Date of (Month/D) AN STREET 02/25/20				ransaction			Director 10% Owner Officer (give title Other (specify below) Senior Vice President			
				4. If Amendment, Date Original Filed(Month/Day/Year)				6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(State)						Person				
(City)	(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									ly Owned	
1.Title of Security (Instr. 3)	2. Transaction I (Month/Day/Ye	ar) Executi any	emed on Date, if /Day/Year)	3. Transacti Code (Instr. 8)	4. Securion(A) or D (Instr. 3,	ispose 4 and (A) or	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		
Common Stock	02/25/2013			S <u>(1)</u>	1,756	D	\$ 73.29	28,603	D		
Common Stock	02/25/2013			A	1,890 (2)	A	\$ 0	30,493	D		
Common Stock	02/25/2013			A	8,250 (3)	A	\$ 0	38,743	D		

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

F

1,514 D

\$ 71.6 37,229

D

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SEC 1474 (9-02)

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

1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4.	5. onNumber	6. Date Exerc Expiration D		7. Titl		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(Month/Day/Tear)	any (Month/Day/Year)	Code (Instr. 8)	of	(Month/Day/		Under Securi	rlying	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Loewald Thomas W 81 WYMAN STREET WALTHAM, MA 02451

Senior Vice President

Signatures

Barbara J. Lucas, Attorney-in-Fact for Thomas W. Loewald

02/27/2013

**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).
- The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 19, 2012.
- Shares represent a performance-based restricted stock unit award granted on March 5, 2010, for which the performance criteria have been satisfied.
- Shares represent a performance-based restricted stock unit award granted on March 2, 2012. The Company's Compensation
 Committee determined on February 25, 2013, that the performance criteria related to this award was satisfied. One-third of the shares vested on February 25, 2013, one-third of the shares vest on February 25, 2014, and the remaining one-third vest on February 25, 2015.

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

Reporting Owners 2

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