

SHEEHAN STEPHEN G
 Form 4
 September 10, 2007

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 *
 SHEEHAN STEPHEN G

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

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)
 ___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)
 Sr. VP, Human Resources

(Last) (First) (Middle)
 81 WYMAN STREET, P.O. BOX 9046
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/06/2007

WALTHAM, MA 024549046

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	09/06/2007		M		5,000	A	\$ 20.27
Common Stock	09/06/2007		M		50,000	A	\$ 19.67
Common Stock	09/06/2007		S		600	D	\$ 54.62
Common Stock	09/06/2007		S		100	D	\$ 54.63
Common Stock	09/06/2007		S		200	D	\$ 54.64

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Common Stock	09/06/2007	S	400	D	\$ 54.65	65,431.99	D
Common Stock	09/06/2007	S	900	D	\$ 54.66	64,531.99	D
Common Stock	09/06/2007	S	300	D	\$ 54.67	64,231.99	D
Common Stock	09/06/2007	S	1,400	D	\$ 54.68	62,831.99	D
Common Stock	09/06/2007	S	1,300	D	\$ 54.69	61,531.99	D
Common Stock	09/06/2007	S	200	D	\$ 54.7	61,331.99	D
Common Stock	09/06/2007	S	500	D	\$ 54.71	60,831.99	D
Common Stock	09/06/2007	S	2,000	D	\$ 54.73	58,831.99	D
Common Stock	09/06/2007	S	100	D	\$ 54.74	58,731.99	D
Common Stock	09/06/2007	S	3,600	D	\$ 54.75	55,131.99	D
Common Stock	09/06/2007	S	1,900	D	\$ 54.76	53,231.99	D
Common Stock	09/06/2007	S	2,100	D	\$ 54.77	51,131.99	D
Common Stock	09/06/2007	S	1,100	D	\$ 54.79	50,031.99	D
Common Stock	09/06/2007	S	1,600	D	\$ 54.8	48,431.99	D
Common Stock	09/06/2007	S	4,900	D	\$ 54.81	43,531.99	D
Common Stock	09/06/2007	S	2,200	D	\$ 54.82	41,331.99	D
Common Stock	09/06/2007	S	900	D	\$ 54.83	40,431.99	D
Common Stock	09/06/2007	S	700	D	\$ 54.84	39,731.99	D
Common Stock	09/06/2007	S	300	D	\$ 54.85	39,431.99	D
Common Stock	09/06/2007	S	600	D	\$ 54.86	38,831.99	D
	09/06/2007	S	300	D		38,531.99	D

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Common Stock						\$ 54.87		
Common Stock	09/06/2007		S	15,000	D	\$ 54.88	23,531.99	D
Common Stock	09/06/2007		S	300	D	\$ 54.89	23,231.99	D
Common Stock	09/06/2007		S	900	D	\$ 54.9	22,331.99	D
Common Stock	09/06/2007		S	400	D	\$ 54.91	21,931.99	D

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 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)	8. Amount or Number of Shares
Stock Option (Right to Buy)	\$ 20.27	09/06/2007		M	5,000	<u>(1)</u> 03/15/2009	Common Stock	5,000
Stock Option (Right to Buy)	\$ 19.67	09/06/2007		M	50,000	<u>(2)</u> 11/21/2012	Common Stock	50,000

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SHEEHAN STEPHEN G 81 WYMAN STREET			Sr. VP, Human Resources	

P.O. BOX 9046
WALTHAM, MA 024549046

Signatures

By: Barbara J. Lucas, Attorney-in-Fact for Stephen G.
Sheehan

09/10/2007

**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 option vests in three equal annual installments beginning on March 15, 2003.
- (2) The option originally was to have vested in three equal annual installments beginning on November 21, 2005, but became fully exercisable on November 9, 2006, as a result of the Issuer's merger with Fisher Scientific International Inc.

Remarks:

Form 1 of 2

Note: File three copies of this Form, one of which must be manually signed. If space 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.