

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<br>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

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