

THERMO FISHER SCIENTIFIC INC.

Form 4

August 21, 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 *
DEKKERS MARIJN E

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, P.O. BOX 9046

3. Date of Earliest Transaction (Month/Day/Year)
08/17/2007

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

(Street)
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 | 08/17/2007 | | M | | 82,591 | A | \$ 22.47 |
| Common Stock | 08/17/2007 | | M | | 4,499 | A | \$ 22.56 |
| Common Stock | 08/17/2007 | | M | | 62,910 | A | \$ 20.27 |
| Common Stock | 08/17/2007 | | S | | 24,900 | D | \$ 50 |
| Common Stock | 08/17/2007 | | S | | 2,200 | D | \$ 50.01 |

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| | | | | | | | |
|--------------|------------|---|--------|---|----------|---------|---|
| Common Stock | 08/17/2007 | S | 2,100 | D | \$ 50.02 | 245,492 | D |
| Common Stock | 08/17/2007 | S | 2,200 | D | \$ 50.03 | 243,292 | D |
| Common Stock | 08/17/2007 | S | 22,913 | D | \$ 50.05 | 220,379 | D |
| Common Stock | 08/17/2007 | S | 15,000 | D | \$ 50.15 | 205,379 | D |
| Common Stock | 08/17/2007 | S | 100 | D | \$ 50.18 | 205,279 | D |
| Common Stock | 08/17/2007 | S | 300 | D | \$ 50.19 | 204,979 | D |
| Common Stock | 08/17/2007 | S | 2,900 | D | \$ 50.2 | 202,079 | D |
| Common Stock | 08/17/2007 | S | 400 | D | \$ 50.21 | 201,679 | D |
| Common Stock | 08/17/2007 | S | 100 | D | \$ 50.22 | 201,579 | D |
| Common Stock | 08/17/2007 | S | 300 | D | \$ 50.23 | 201,279 | D |
| Common Stock | 08/17/2007 | S | 1,000 | D | \$ 50.24 | 200,279 | D |
| Common Stock | 08/17/2007 | S | 3,510 | D | \$ 50.25 | 196,769 | D |
| Common Stock | 08/17/2007 | S | 999 | D | \$ 50.26 | 195,770 | D |
| Common Stock | 08/17/2007 | S | 1,000 | D | \$ 50.27 | 194,770 | D |
| Common Stock | 08/17/2007 | S | 700 | D | \$ 50.28 | 194,070 | D |
| Common Stock | 08/17/2007 | S | 4,700 | D | \$ 50.29 | 189,370 | D |
| Common Stock | 08/17/2007 | S | 21,700 | D | \$ 50.3 | 167,670 | D |
| Common Stock | 08/17/2007 | S | 3,300 | D | \$ 50.31 | 164,370 | D |
| Common Stock | 08/17/2007 | S | 200 | D | \$ 50.32 | 164,170 | D |
| Common Stock | 08/17/2007 | S | 500 | D | \$ 50.33 | 163,670 | D |
| | 08/17/2007 | S | 300 | D | | 163,370 | D |

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| | | | | | | | |
|--------------|------------|---|-------|---|----------|---------|---|
| Common Stock | | | | | \$ 50.34 | | |
| Common Stock | 08/17/2007 | S | 600 | D | \$ 50.35 | 162,770 | D |
| Common Stock | 08/17/2007 | S | 800 | D | \$ 50.36 | 161,970 | D |
| Common Stock | 08/17/2007 | S | 1,400 | D | \$ 50.37 | 160,570 | D |
| Common Stock | 08/17/2007 | S | 1,000 | D | \$ 50.38 | 159,570 | D |

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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(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) | \$ 22.47 | 08/17/2007 | | M | 82,591 | <u>(1)</u> 03/14/2008 | Common Stock | 82,591 |
| Stock Option (Right to Buy) | \$ 20.27 | 08/17/2007 | | M | 62,910 | <u>(2)</u> 03/15/2009 | Common Stock | 62,910 |
| Stock Option (Right to Buy) | \$ 22.56 | 08/17/2007 | | M | 4,499 | <u>(3)</u> 05/17/2011 | Common Stock | 4,499 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| DEKKERS MARIJN E 81 WYMAN STREET P.O. BOX 9046 WALTHAM, MA 024549046 | X | | Chief Executive Officer | |

Signatures

By: Barbara J. Lucas, Attorney-in-Fact for Marijn E. Dekkers 08/21/2007

__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 14, 2002.
 - (2) The option vests in three equal annual installments beginning on March 15, 2003.
 - (3) The option vests 25% on May 17, 2002, and then equal quarterly installments thereafter until May 17, 2005.

Remarks:

Form 1 of 2

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