

THERMO FISHER SCIENTIFIC INC.

Form 4

February 12, 2008

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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 *
ULLIAN ELAINE

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)
02/11/2008

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

(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 | 02/11/2008 | | M | | | 17,444 | A | \$ 18.09 | 17,944 | D | |
| Common Stock | 02/11/2008 | | S | | | 100 | D | \$ 55.37 | 17,844 | D | |
| Common Stock | 02/11/2008 | | S | | | 900 | D | \$ 55.38 | 16,944 | D | |
| Common Stock | 02/11/2008 | | S | | | 444 | D | \$ 55.44 | 16,500 | D | |
| Common Stock | 02/11/2008 | | S | | | 100 | D | \$ 55.46 | 16,400 | D | |

Director 10% Owner Officer Other

ULLIAN ELAINE
81 WYMAN STREET
P.O. BOX 9046
WALTHAM, MA 024549046

X

Signatures

By: Barbara J. Lucas, Attorney-in-Fact for Elaine S.
Ullian

02/12/2008

__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 vested in three equal installments on July 19, 2002, 2003 and 2004.

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.