

Loewald Thomas W
 Form 3
 January 10, 2012

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL
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INITIAL STATEMENT OF 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 * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Loewald Thomas W | | (Month/Day/Year) | THERMO FISHER SCIENTIFIC INC. [TMO] | |
| (Last) | (First) | (Middle) | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| 81 WYMAN STREET | | | (Check all applicable) | |
| (Street) | | | <input type="checkbox"/> Director | <input type="checkbox"/> 10% Owner |
| WALTHAM,Â MAÂ 02451 | | | <input checked="" type="checkbox"/> Officer | <input type="checkbox"/> Other |
| (City) | (State) | (Zip) | (give title below) | (specify below) |
| | | | Senior Vice President | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| | | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| | | | | <input type="checkbox"/> Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock | 18,715 | D | Â |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

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

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
| | Date Exercisable | Expiration Date | Title | Amount or Number of | |

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| | | | | Shares | | (I) (Instr. 5) | |
|-----------------------------|---------------------------|------------|--------------|--------|----------|-------------------|---|
| Stock Option (Right to Buy) | Â (1) | 11/09/2013 | Common Stock | 9,080 | \$ 43.37 | D | Â |
| Stock Option (Right to Buy) | Â (2) | 02/26/2016 | Common Stock | 21,600 | \$ 36.1 | D | Â |
| Stock Option (Right to Buy) | Â (3) | 02/23/2018 | Common Stock | 28,050 | \$ 54.97 | D | Â |
| Stock Option (Right to Buy) | 03/05/2011 ⁽⁴⁾ | 03/05/2017 | Common Stock | 20,250 | \$ 49.49 | D | Â |
| Stock Option (Right to Buy) | 03/05/2012 ⁽⁵⁾ | 03/05/2017 | Common Stock | 14,500 | \$ 49.49 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Loewald Thomas W 81 WYMAN STREET WALTHAM, MA 02451 | Â | Â | Â Senior Vice President | Â |

Signatures

Barbara J. Lucas, Attorney-in-Fact for Thomas W. Loewald
01/10/2012

__Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 5(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 was exercisable in five equal annual installments beginning on November 9, 2007.
- (2) The option is exercisable in three equal annual installments. The first and second installments of 10,533 shares each became exercisable on February 26, 2010, and 2011 and the third installment of 10,534 becomes exercisable on February 26, 2012.
- (3) The option vests in four equal annual installments beginning on February 23, 2012.
- (4) The option is exercisable in four equal annual installments. The first installment became exercisable on March 5, 2011, and the next three installments become exercisable on March 5, 2012, 2013, and 2014.
- (5) The option vests in four equal annual installments beginning on March 5, 2012.

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Remarks:

Exhibit List - Exhibit 24 - Confirming Statement

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.