

THERMO FISHER SCIENTIFIC INC.
 Form 4
 September 19, 2007

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 *
 CASPER MARC N

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)
 Executive Vice President

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

3. Date of Earliest Transaction (Month/Day/Year)
 09/18/2007

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)
				(A) or (D)	Price		
Common Stock	09/18/2007		M	33,000	A \$ 27.4	82,078.53	D
Common Stock	09/18/2007		S ⁽¹⁾	24,600	D \$ 57	57,478.53	D
Common Stock	09/18/2007		S ⁽¹⁾	4,200	D \$ 57.02	53,278.53	D
Common Stock	09/18/2007		S ⁽¹⁾	1,400	D \$ 57.04	51,878.53	D
Common Stock	09/18/2007		S ⁽¹⁾	2,200	D \$ 57.05	49,678.53	D

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- (2) The option originally was to have vested in three equal annual installments beginning on February 25, 2006, but became fully exercisable on November 9, 2006, as a result of the Issuer's merger with Fisher Scientific International Inc.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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