PASQUALE MICHAEL F

Form 4

March 21, 2007

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

OMB APPROVAL

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Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. See Instruction

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * PASQUALE MICHAEL F

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

Symbol

MINERALS TECHNOLOGIES INC

(Check all applicable)

[MTX]

(Last) (First) (Middle)

3. Date of Earliest Transaction

X_ Director 10% Owner Other (specify

(Month/Day/Year)

03/20/2007

Officer (give title below)

MINERALS TECHNOLOGIES INC., 405 LEXINGTON AVENUE

(Street)

4. If Amendment, Date Original

(Instr. 8)

6. Individual or Joint/Group Filing(Check

(Instr. 4)

Filed(Month/Day/Year)

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Issuer

NEW YORK, NY 10174

(State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial (I) Ownership

Following Reported

or

(A)

Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

number.

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

(Instr. 4)

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

3. Transaction Date 3A. Deemed 1. Title of (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date Conversion

5. Number

6. Date Exercisable and

7. Title and Amount of 8. Price Underlying Securities Deriv

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Month/Day/Year)		(Instr. 3 and 4)		Securi (Instr.
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Phantom Stock Units	\$ 0 (1)	03/20/2007		A	V	5.835		(2)	(2)	Common Stock	5.835	\$

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

PASQUALE MICHAEL F MINERALS TECHNOLOGIES INC. 405 LEXINGTON AVENUE NEW YORK, NY 10174



Signatures

Laszlo Serester For Michael F.

Pasquale

**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).

03/21/2007

- (1) Each phantom stock unit, when redeemed, will have the value of one share of the Company's common stock on the first business day of the month in which payment is made.
- (2) The phantom stock units were accrued under the Minerals Technologies Inc. Non-Funded Deferred Compensation and Unit Award Plan for Non-Employee Directors and are to be settled in cash upon the reporting person's termination of service as a director.
- The reporting person also directly owns employee stock options to purchase (I) 151 shares of the Company's common stock at \$39.53 per share which became exercisable in three equal annual installments beginning on January 28, 2000 and expiring on January 28, 2009 and (II) 168 shares of the Company's common stock at \$46.625 per share which became exercisable in three equal annual installments beginning on January 24, 2003 and expiring on January 24, 2012.

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.

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