

MINERALS TECHNOLOGIES INC  
 Form 4/A  
 June 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 \*  
 MASSIMINE KENNETH L

2. Issuer Name and Ticker or Trading Symbol  
 MINERALS TECHNOLOGIES INC  
 [MTX]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 MINERALS TECHNOLOGIES  
 INC., 405 LEXINGTON AVENUE  
 (Street)

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 05/07/2007

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 SENIOR VICE PRESIDENT

NEW YORK, NY 10174

4. If Amendment, Date Original Filed(Month/Day/Year)  
 05/09/2007

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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D)  | Price   |  |                                   |
|                                 |                                      |  |                                | Code V  | Amount  |  |                                   |
| Common Stock                    | 05/07/2007                           |  | M                              | A   | 5,447<br>(1)<br>39.53   | 9,735  | D                                 |
| Common Stock                    | 05/07/2007                           |  | S                              | D   | 5,447<br>66.78  | 4,288  | D                                 |
| Common Stock                    |                                      |  |                                |   | 2,558 (2)   | I  | By 401(k) Plan                    |

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

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 (9-02)

displays a currently valid OMB control number.

**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 |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Employee Stock Option (Right to Buy)       | \$ 39.53   | 05/07/2007                           |  | M                              | 5,447   | (3) 01/28/2009   | Common Stock  | 5,447                         |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                       |       |
|---|---------------|-----------|-----------------------|-------|
|   | Director      | 10% Owner | Officer               | Other |
| MASSIMINE KENNETH L<br>MINERALS TECHNOLOGIES INC.<br>405 LEXINGTON AVENUE<br>NEW YORK, NY 10174 |               |           | SENIOR VICE PRESIDENT |       |

## Signatures

LASZLO SERESTER FOR KENNETH L. MASSIMINE  
 06/21/2007  
 \*\*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) On May 9, 2007 the reporting person mistakenly reported the exercise and sale of 860 Employee Stock Options when in fact 5,447 Employee Stock Options were exercised and sold.
- (2) Mr. Massimine has 2,558 shares of Minerals Technologies Inc. common stock under the Company's 401(k) plan. The information contained in this report is based on a plan statement dated as of May 7, 2007.
- (3) The options vested in three equal annual installments beginning on January 28, 2000.

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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