

MINERALS TECHNOLOGIES INC  
 Form 4  
 February 29, 2008

**FORM 4**

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

OMB APPROVAL

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**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)

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

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

Senior Vice President

MINERALS TECHNOLOGIES INC., 405 LEXINGTON AVENUE

(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)

\_\_\_X\_\_\_ Form filed by One Reporting Person  
 \_\_\_ Form filed by More than One Reporting Person

NEW YORK, NY 10174

(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)
			Code	V Amount (A) or (D) Price			
Common Stock	02/28/2008		M	2,334 A (\$)	8,555	D	
Common Stock	02/28/2008		F	804 D \$ 60.35	7,751	D	
Common Stock					2,621 (1)	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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**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 Security (Instr. 3 and 4)	Amount or Number of Shares
						Date Exercisable	Expiration Date		
Employee Stock Option (Right to Buy)	\$ 64.16	02/27/2008		A	11,500	<u>(2)</u>	02/27/2018	Common Stock	11,500
Deferred Restricted Stock Units ("DRSUs")	<u>(3)</u>	02/27/2008		A	6,700	<u>(4)</u>	<u>(4)</u>	Common Stock	6,700
DRSUs	<u>(3)</u>	02/28/2008		M	2,334	<u>(5)</u>	<u>(5)</u>	Common Stock	2,334

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MASSIMINE KENNETH L MINERALS TECHNOLOGIES INC. 405 LEXINGTON AVENUE NEW YORK, NY 10174			Senior Vice President	

## Signatures

Laszlo Serester for Kenneth L. Massimine  
 02/29/2008  
 \*\*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) Mr. Massimine has 2,621 shares of Minerals Technologies Inc. stock under the Company's 401(k) Plan. The information contained in this report is based on a Plan Statement dated as of February 22, 2008.
  - (2) The options vest in three equal annual installments beginning on February 27, 2009.

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- (3) Each DRSU is the economic equivalent of one share of Minerals Technologies Inc. Common Stock.
- (4) DRSUs vest in three equal annual installments beginning on February 27, 2009. Vested shares will be delivered to the reporting person upon vesting.
- (5) Mr. Massimine was granted 7,000 DRSUs on February 28, 2007, which vest in three equal annual installments beginning on February 28, 2008.

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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