

MINERALS TECHNOLOGIES INC  
 Form 4  
 December 22, 2004

**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 \*  
**HARRISON DENNIS R**

(Last) (First) (Middle)

MINERALS TECHNOLOGIES  
 INC., 405 LEXINGTON AVENUE

(Street)

NEW YORK, NY 10174

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)  
 12/21/2004

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
**VICE PRESIDENT**

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**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)
			Code	V	Amount (A) or Price (D)		
COMMON STOCK	12/21/2004	12/21/2004	M		2,500 A \$ 39.53	3,500	D
COMMON STOCK	12/21/2004	12/21/2004	S		2,000 D \$ 66.35	1,500	D
COMMON STOCK	12/21/2004	12/21/2004	M		437 A \$ 39.53	1,937	D
COMMON STOCK	12/21/2004	12/21/2004	S		437 D \$ 66.48	1,500	D
COMMON STOCK						2,382 <sup>(1)</sup>	I BY 401(K)

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

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

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(9-02)

**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 (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)	Amount or Number of Shares
EMPLOYEE STOCK OPTION (RIGHT TO BUY)	\$ 39.53	12/21/2004	12/21/2004	M	2,000	(2) (2)	COMMON STOCK	2,000
EMPLOYEE STOCK OPTION (RIGHT TO BUY)	\$ 39.53	12/21/2004	12/21/2004	M	437	(2) (2)	COMMON STOCK	437

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
HARRISON DENNIS R MINERALS TECHNOLOGIES INC. 405 LEXINGTON AVENUE NEW YORK, NY 10174			VICE PRESIDENT	

## Signatures

LINDA A. BUGGELN FOR DENNIS R. HARRISON  
12/22/2004

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. HARRISON HAS 2382 SHARES OF MINERALS TECHNOLOGIES INC. STOCK UNDER THE COMPANY'S 401(K) PLAN. THE INFORMATION IN THIS REPORT IS BASED ON A PLAN STATEMENT DATED AS OF SEPTEMBER 30, 2004.
- (2) THIS OPTION VESTED IN THREE EQUAL ANNUAL INSTALLMENTS BEGINNING ON JANUARY 28, 2000.
- (3) ONE-FOR-ONE.

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.