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## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 OMB APPROVAL
OMB Number: 3235-0287
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1. Name and Addres DIETRICH D	ss of Reporting Person	n*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>MINERALS TECHNOLOGIES INC</u> [ MTX ]		tionship of Reporting Person(s) to Issuer all applicable) Director 10% Owner Officer (give title Other (specify below) below)		
(Last)(First)(Middle)622 THIRD AVENUE		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 01/27/2011		VICE PRESIDENT		
(Street) NEW YORK (City)	NY (State)	10017 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing ( Form filed by One Report Form filed by More than C Person	ing 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)						5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	01/27/2011		М		1,320	A	(1)	3,968	D	
Common Stock	01/27/2011		F		588	D	\$64.45	3,380	D	
Common Stock								679 <sup>(2)</sup>	I	By 401(k)

#### 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. Transa Code ( 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Deferred Restricted Stock Units (DRSUs)	(1)	01/27/2011		М			1,320	(3)	(3)	Common Stock	1,320	\$0	11,494	D	

Explanation of Responses:

1. Each DRSU is the economic equivalent of one share of Mineral Technologies Inc. Common Stock.

2. The information contained in this report is based on a Plan Statement dated as of January 27, 2011.

3. The DRSU?s were granted on January 27, 2010 and vest in three equal installments beginning on January 27, 2011.

Remarks:

By: Thomas Meek for Douglas T. Dietrich 01/31/2011

\*\* Signature of Reporting Person Date

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

\* 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).

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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