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

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* DIETRICH DOUGLAS T						2. Issuer Name and Ticker or Trading Symbol MINERALS TECHNOLOGIES INC [MTX]										5. Relationship of Repo (Check all applicable) Director Officer (give tit			g Per	10% Ov Other (s	vner				
(Last) (First) (Middle) 622 THIRD AVENUE						3. Date of Earliest Transaction (Month/Day/Year) 08/02/2010										below) below) Vice President									
(Street) NEW YO	ORK N	Y	10017		4. 11	4. If Amendment, Date of 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								
(City)	(Si		Zip)	n-Deriv	vative	ative Securities Acquired, Disposed of, or Benefi																			
1. Title of Security (Instr. 3) 2. T Dat			2. Trans	2. Transaction		2A. Deemed Execution Date,		3. Transaction Code (Instr		ion	4. Securities Acquired (A Disposed Of (D) (Instr. 3,		d (A) or	5. Amount of Securities Beneficially Owned Following Reported		ınt of es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)						
										Code V		Amount				(A) or (D)				Price	tion(s)				
Common Stock				08/02/2010)			N	ı		350		A	(1)		2,788			D					
Common Stock				08/02	08/02/2010				F			140		D	\$53.	5.75 2		2,648		D					
Common Stock																		668(2)		Ι .	By 401(k) Plan				
	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 (Instr. 3) 3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)				Date,	4. Transactio Code (Inst		n of		6. Date Exercisable Expiration Date (Month/Day/Year)			Amount of		Security	8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)					
					Code	v	(A)	(D)	Date Exercis	sable	Ex Da	piration te	Title		Amount or Number of Shares										
Deferred Restricted Stock Units (DRSUs)	(1)	08/02/2010			M			350	(3)			(3)	Com		350	(L)	8,159		D					

Explanation of Responses:

- 1. Each DRSU is the economic equivalent of one share of Minerals Technologies Inc. Common Stock.
- 2. Mr. Dietrich has 668 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 August 3, 2010.
- 3. Mr. Dietrich was granted 1,050 DRSUs on August 1, 2007, which vest in three equal annual installments beginning on August 1, 2008.

Remarks:

Thomas Meek for Douglas T. Dietrich

08/04/2010

** 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.

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 Number.