FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

ı	OMB APPROVAL								
	OMB Number:	3235-0287							
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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).

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

1. Name and Address of Reporting Person* DIETRICH DOUGLAS T (Last) (First) (Middle) 405 LEXINGTON AVENUE				3. [2. Issuer Name and Ticker or Trading Symbol MINERALS TECHNOLOGIES INC [MTX] 3. Date of Earliest Transaction (Month/Day/Year) 01/28/2009								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) Vice President					
(Street) NEW YORK NY 10174 (City) (State) (Zip)			4. 1	f Am	endment	, Date of	Original	Filed	(Month/Day	Line	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)	(5			n_Deriv	vativ		Curitic	as Acc	uired	Die	nosed o	f or Ben	eficiall	v Owned				\dashv
Table I - Non-Deriv 1. Title of Security (Instr. 3) 2. Trans Date (Month/l			action			ned on Date,	3. 4. Securiti Transaction Code (Instr.		ies Acquired (A) or Of (D) (Instr. 3, 4 and 5)		5. Amount of		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect t Beneficia	7. Nature of Indirect Beneficial Ownership			
							, , ,		Code	v	Amount (A) or (D)		Price	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock			01/28	3/2010				М		1,634	A	(1)	2,638		D		╗	
Common Stock			01/28	8/2010				F		758	D	\$48.2	7 1,	880	D			
Common Stock												48	482(2)		By 401(k) Plan			
			Table II -						,		,	or Bene ole secui	•	Owned		,	,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,	4. Transaction Code (Instr. 8) S. Number of Securities Acquired (A or Dispose of (D) (Instr. 3, 4 and 5)		tive ities red (A) posed (Instr.	6. Date Exercisab Expiration Date (Month/Day/Year)		е	7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti	Owner S Form: Direct or Indi (I) (Ins	(D) Benef Ownerect (Instr.	irect icial rship	
				Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	Unitary			
Employee Stock Option (Right to Buy)	\$39.71	01/28/2009			A		8,500		(3)		01/28/2019	Common Stock	8,500	\$0	15,60	0 D		
Deferred Restricted Stock Units (DRSUs)	(1)	01/28/2009			A		4,900		(4)		(4)	Common Stock	4,900	\$0	7,116	5 D		
DRSUs	(1)	01/28/2010			M			1,634	(5)		(5)	Common Stock	1,634	(1)	5,482	2 D		

Explanation of Responses:

- 1. Each DRSU is the economic equivalent of one share of Minerals Technologies Inc. Common Stock.
- 2. Mr. Dietrich has 482 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 January 28, 2010.
- 3. The options vest in three equal annual installments beginning on January $28,\,2010.$
- 4. DRSUs vest in three equal annual installments beginning on January 28, 2010. Vested shares will be delivered to the reporting person upon vesting.
- $5.\ Mr.\ Dietrich\ was\ granted\ 4,900\ DRSUs\ on\ January\ 28,\ 2009,\ which\ vest\ in\ three\ equal\ annual\ installments\ beginning\ on\ January\ 28,\ 2010.$

Remarks:

Thomas Meek for Douglas T. Dietrich ** Signature of Reporting Person

02/01/2010

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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