FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ington, D.C. 20549	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

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1. Name and Address of Reporting Person* MUSCARI JOSEPH C						2. Issuer Name and Ticker or Trading Symbol MINERALS TECHNOLOGIES INC [MTX]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify					
(Last) 405 LEX	(F INGTON A	irst) AVENUE	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/28/2009							X	below)	ief Exec	utive	below)	респу		
(Street) NEW Y(Y State)	10174 (Zip)		4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(- 9)	(-		ıble I - No	n-Der	rivati	ve S	ecuritie	es Aca	uired.	Dis	posed of	or Bene	eficially	Owned					
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)			2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Disposed O	s Acquired	(A) or	5. Amount of Securities Beneficially Owned Follow		Form:	Direct Indirect Introduced Interest Int	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount (A) or (D)		Price	Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)	
Common Stock			01/28/2010				М		10,667	A	(1)	22,163		D					
Common Stock			01/28/2010				F		5,405	D	\$48.27	16,758			D				
Common Stock													593 ⁽²⁾			I	3y 401(k) Plan		
			Table II -								osed of, o convertible			Owned			'		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	conversion Date (Month/Day/Year) Price of Derivative		ate,	4. Transa Code (8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerci Expiration Da (Month/Day/Yo		ite	of Securiti Underlying Derivative	Title and Amount Securities nderlying erivative Security nstr. 3 and 4)		9. Numbe derivative Securities Beneficia Owned Following Reported	e s ally	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		Transacti (Instr. 4)				
Employee Stock Option (Right to Buy)	\$39.71	01/28/2009			A		55,000		(3)		01/28/2019	Common Stock	55,000	\$0 160,0		00	D		
Deferred Restricted Stock Units (DRSUs)	(1)	01/28/2009			A		32,000		(4)		(4)	Common Stock	32,000	\$0	72,33	32	D		
DRSUs	(1)	01/28/2010			M			10,667	(5)		(5)	Common	10,667	(1)	61,66	i5	D		

Explanation of Responses:

- $1. \ Each\ DRSU\ is\ the\ economic\ equivalent\ of\ one\ share\ of\ Minerals\ Technologies\ Inc.\ Common\ Stock.$
- 2. Mr. Muscari has 593 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. Muscari was granted 32,000 DRSUs on January 28, 2009, which vest in three equal annual installments beginning on January 28, 2010.

Remarks:

Thomas Meek for Joseph C. Muscari

02/01/2010

** 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.

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