FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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obligations may continue. See
Instruction 1(h)

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*						2. Issuer Name and Ticker or Trading Symbol MINERALS TECHNOLOGIES INC [MTX										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
MUSCARI JOSEPH C					1	1									Directo			10% Ov			
													X	Officer below	give title		Other (s below)	specify			
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year)									C	hief Exec	utive	Officer			
622 THIRD AVENUE						09/16/2010															
							4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street) NEW Y(ORK N	v	10017											Line) X	Form	filed by One	Don	orting Perso	,		
NEW YO	JKK N	Y	10017											Λ		,		Ü			
(City) (State) (Zip)															Perso	n filed by More than One Repor son			iung		
		Tab	le I - No	n-Deriv	ative	Sec	curities	s Ac	quired, [Disp	osed o	of, or Be	nefic	ially	Owne						
1. Title of S	Security (Ins	tr. 3)		2. Trans	action	2	2A. Deem	ed	3.		4. Secur	ities Acquir	red (A) d	or	5. Amou	int of	6. Ov	vnership	7. Nature		
Date (Month/Date				Day/Yea	Execution Date, ay/Year) if any			Transaction Disposed Of (D) (Instr. 3, 2) Code (Instr. 5)				str. 3, 4	4 and Securities Beneficially			Form: Direct (D) or Indirect		of Indirect Beneficial			
			`	,		(Month/Da		r) 8) `						Owned Following Reported		(l) (Instr. 4)		Ownership (Instr. 4)			
									Code	v	Amount	(A) o (D)	Pri	се	Transac (Instr. 3	tion(s)			(
		T							uired, Di						wned	·					
				(e.g., p	uts,	calls	s, warr	ants	, options	s, co	onverti	ble secu	urities	s)							
1. Title of	2.	3. Transaction Date (Month/Day/Year)	3A. Deem	Date,	4.	-4:	5. Num	ber	6. Date Exercisa		ble and	7. Title and		8. Price of		9. Number			11. Nature		
Derivative Security	Conversion or Exercise		Execution if any		Transaction Code (Instr		str. Derivative		(Month/Day/Year)			Amount of Securities		s	erivative ecurity	Securities	s	Ownership Form:	Beneficial Ownership (Instr. 4)		
(Instr. 3)	Price of Derivative		(Month/Da	y/Year)	8)		Securit Acquir		Underlying Derivative Secu					rity (Instr. 5)		Beneficiall Owned	У	Direct (D) or Indirect			
Security						(A) or Disposed			(Instr. 3 and 4)				nd 4)			Following Reported		(I) (Instr. 4)			
						of (D) (Instr. 3	3.4								Transaction(s) (Instr. 4)						
				L			and 5)							_							
													Amou	ınt							
									Data	_	mination		Numb	er							
				-	Code	v	(A)	(D)	Date Exercisable		piration ite	Title	of Share	s							
Phantom Stock	(1)	09/16/2010			A		1.646		(2)		(2)	Common Stock	1.64	6	\$0	1,858.25	51	D			

Explanation of Responses:

- 1. Each phantom stock unit is the economic equivalent of one share of Minerals Technologies Inc. Common Stock.
- 2. The phantom stock units were accrued under the Minerals Technologies Inc. Non-Funded Deferred Compensation and Unit Award Plan for Non-Employee Directors and are to be settled in cash upon the reporting person's termination of service as a director.

Remarks:

<u>Thomas J. Meek for Joseph C. Muscari</u>

09/17/2010

** 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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