FORM 4

obligations may continue. See

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL OMB Number: STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Estimated average burden

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Eiled pursuant to Section 16(a) of the Securities Exchange Act of 1034

		u puisuant to Section 10(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*		2. Issuer Name and Ticker or Trading Symbol MINERALS TECHNOLOGIES INC [MTX]	5. Relat (Check	n(s) to Issuer		
MUSCARI JOSEPH C			X	Director	10% Owner	
MINERALS TECHNOLOGIES INC	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 10/02/2006		Officer (give title below)	Other (specify below)	
405 LEXINGTON AVENUE		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line)	idual or Joint/Group Filing (Check Applicable		
(Street)			X	Form filed by One Report	ing Person	
NEW YORK NY	10174			Form filed by More than C Person	One Reporting	
(City) (State)	(Zip)					

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)	tion Date, Transaction Code (Instr.		Disposed Of (D) (Instr. 3, 4 and 5)			Securities Beneficially	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	Transaction(s) (Instr. 3 and 4)		(mour 4)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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. Transaction Code (Instr. 8)				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				
PHANTOM STOCK UNITS	\$0 ⁽¹⁾	10/02/2006		A		42.849		(2)	(2)	COMMON STOCK	42.849	\$52.51	1,793.096	D	

Explanation of Responses:

1. EACH PHANTOM STOCK UNIT, WHEN REDEEMED, WILL HAVE THE VALUE OF ONE SHARE OF THE COMPANY'S COMMON STOCK ON THE FIRST BUSINESS DAY OF THE MONTH IN WHICH PAYMENT IS MADE.

2. THE PHANTOM STOCK UNITS WERE ACCRUED UNDER THE MINERALS TECHNOLOGIES INC. NON-FUNDED DEFERRED COMPENSATION AND UNIT AWARD PLAN FOR NON-EMPLOYEE DIRECTOR'S AND ARE TO BE SETTLED IN CASH UPON THE REPORTING PERSON'S RETIREMENT.

Remarks:

LASZLO SERESTER FOR JOSEPH C. MUSCARI

10/03/2006 Date

** Signature of Reporting Person

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.