MOSAIC CO Form 4 March 31, 2008

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1. Name and Address of Reporting Person *

1(b).

MATHIS DAVID B Symbol MOSAIC CO [MOS] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) X_ Director 10% Owner Officer (give title Other (specify C/O THE MOSAIC 03/28/2008 COMPANY, 3033 CAMPUS DRIVE, SUITE E490

2. Issuer Name and Ticker or Trading

(Street) 4. If Amendment, Date Original Filed(Month/Day/Year)

(Zip)

6. Individual or Joint/Group Filing(Check Applicable Line)

Issuer

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

X Form filed by One Reporting Person Form filed by More than One Reporting

5. Relationship of Reporting Person(s) to

PLYMOUTH, MN 55441

(State)

(City)

1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities Acquired	5. Amount of	6.	7. Nature of			
Security	(Month/Day/Year)	Execution Date, if	Transactio	on(A) or Disposed of (D)	Securities	Ownership	Indirect			
(Instr. 3)		any	Code	(Instr. 3, 4 and 5)	Beneficially	Form: Direct	Beneficial			
		(Month/Day/Year)	(Instr. 8)		Owned	(D) or	Ownership			
		•			Following	Indirect (I)	(Instr. 4)			
					Reported	(Instr. 4)				
				(A)	Transaction(s)					
			~	or	(Instr. 3 and 4)					
			Code V	Amount (D) Price	· ·					
Common Stock	03/28/2008		M	2,500 A $\frac{\$}{34.875}$	21,969	D				

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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. Transacti Code (Instr. 8)	Secu Acqu (A) o Dispo	rities nired or osed of r. 3, 4,	Expiration Dat	b. Date Exercisable and Expiration Date Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (right to buy)	\$ 34.875	03/28/2008		M		2,500	10/22/2004	05/12/2008	Common Stock	2,500	
Stock Option (right to buy)	\$ 22.6562						10/22/2004	04/27/2009	Common Stock	2,500	
Stock Option (right to buy)	\$ 14.6563						10/22/2004	04/25/2010	Common Stock	2,500	
Stock Option (right to buy)	\$ 12.15						10/22/2004	05/10/2012	Common Stock	9,800	
Stock Option (right to buy)	\$ 11.59						10/22/2004	05/14/2014	Common Stock	7,800	
Restricted Stock Units	\$ 0 (1)						08/01/2008	(2)	Common Stock	3,470	
Restricted Stock Units	\$ 0 (1)						08/04/2009	(2)	Common Stock	4,207	
Restricted Stock Units	\$ 0 (1)						08/02/2010	(2)	Common Stock	1,624	

Reporting Owners

Reporting Owner Name / Address Relationships

Reporting Owners 2

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Director 10% Owner Officer Other

MATHIS DAVID B C/O THE MOSAIC COMPANY 3033 CAMPUS DRIVE, SUITE E490 PLYMOUTH, MN 55441

X

Signatures

s/Richard L. Mack, Attorney in fact for David B. Mathis

03/31/2008

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) One for one
- (2) Not applicable

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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