MOSAIC CO Form 4 August 08, 2006

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

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

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 5 obligations may continue.

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

See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * MATHIS DAVID B

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

MOSAIC CO [MOS]

3. Date of Earliest Transaction

(Check all applicable)

(First) (Middle) (Last)

(Street)

(State)

(Month/Day/Year)

X_ Director 10% Owner Officer (give title Other (specify

770 BARBERRY LANE

08/04/2006

6. Individual or Joint/Group Filing(Check

4. If Amendment, Date Original

Applicable Line)

Filed(Month/Day/Year) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

below)

LAKE FOREST, IL 60045

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

(Zip)

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of 6. Ownership 7. Nature of Securities Form: Direct Indirect Beneficially (D) or Beneficial Indirect (I) Owned Ownership Following (Instr. 4) (Instr. 4)

(A) or Code V Amount (D) Price

Reported Transaction(s) (Instr. 3 and 4)

Common Stock

(City)

2,367 D

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

(Month/Day/Year)

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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. Transactic Code (Instr. 8)	Securiti	vative les ed	6. 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)	\$ 41.9375						10/22/2004	08/15/2006	Common Stock	2,000
Stock Option (right to buy)	\$ 35.0313						10/22/2004	08/21/2007	Common Stock	2,000
Stock Option (right to buy)	\$ 34.875						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)	\$ 10.815						10/22/2004	05/11/2011	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)	\$ 9.75						10/22/2004	05/16/2013	Common Stock	9,150
Stock Option	\$ 11.59						10/22/2004	05/14/2014	Common Stock	7,800

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(right to buy)								
Grant of Restricted Stock Units	\$ 0				11/30/2007	<u>(1)</u>	Common Stock	3,452
Grant of Restricted Stock Units	\$ 0				08/01/2008	<u>(1)</u>	Common Stock	3,470
Grant of Restricted Stock Units	\$ 0	08/04/2006	A	4,207	08/04/2009	<u>(1)</u>	Common Stock	4,207

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
MATHIS DAVID B 770 BARBERRY LANE LAKE FOREST, IL 60045	X						

Signatures

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

Mathis

08/08/2006

**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) 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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