MOSAIC CO Form 4 August 08, 2006

FORM 4

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

Check this box

if no longer subject to Section 16.

Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

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

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1(b).

(Last)

(City)

E490

1. Name and Address of Reporting Person * MACK RICHARD L

(Middle)

(Zip)

3033 CAMPUS DRIVE, SUITE

(Street)

(First)

2. Issuer Name and Ticker or Trading Symbol

MOSAIC CO [MOS]

3. Date of Earliest Transaction

(Month/Day/Year) 08/04/2006

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Director

X_ Officer (give title

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

5. Relationship of Reporting Person(s) to

(Check all applicable)

Senior Vice President

below)

Person

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

Issuer

below)

PLYMOUTH, MN 55441

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if

(State)

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

Code V Amount

(Instr. 3, 4 and 5)

(A)

Securities Beneficially Owned Following Reported

5. Amount of

(D) or Indirect (I) (Instr. 4)

D

6. Ownership 7. Nature of Form: Direct Indirect Beneficial Ownership (Instr. 4)

10% Owner

Other (specify

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

Transaction(s) (Instr. 3 and 4)

or (D) Price

Common Stock

(Instr. 3)

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

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SEC 1474 (9-02)

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)	5. Number of or Derivative Securities Acquired (A or Disposed (D) (Instr. 3, 4, and 5)	A)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount Underlying Securitie (Instr. 3 and 4)	
				Code V	(A) ((D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Sha
Restricted Stock Units	\$ 0						10/29/2008	<u>(1)</u>	Common Stock	16,6
Stock Option (right to buy)	\$ 15.04						10/29/2007	10/29/2014	Common Stock	10,3
Restricted Stock Units	\$ 0						08/01/2008	(1)	Common Stock	15,4
Stock Option (right to buy)	\$ 17.29						08/01/2006(2)	08/01/2015	Common Stock	46,3
Restricted Stock Units	\$ 0	08/04/2006		A	15,773		08/04/2009	<u>(1)</u>	Common Stock	15,7
Stock Option (right to buy)	\$ 15.45	08/04/2006		A	47,319		08/04/2007(3)	08/04/2016	Common Stock	47,3

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			

MACK RICHARD L 3033 CAMPUS DRIVE SUITE E490 PLYMOUTH, MN 55441

Senior Vice President

Signatures

s/ Richard L. 08/08/2006 Mack

Date

Reporting Owners 2

**Signature of Reporting Person

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.
- (2) Vests 33.33% on 8/1/2006, 8/1/2007 and 8/1/2008.
- (3) Vests 33.33% on 8/4/2007, 8/4/2008 and 8/4/2009.

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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