MOSAIC CO Form 4 August 04, 2010

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

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

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

(Print or Type Responses)

1(b).

(Last)

Common

Stock

1. Name and Address of Reporting Person * COCHRAN PHYLLIS E

(First)

(Middle)

C/O THE MOSAIC COMPANY, 3033 CAMPUS

DRIVE, SUITE E490

(Street)

PLYMOUTH, MN 55441

5. Relationship of Reporting Person(s) to

Symbol

MOSAIC CO [MOS]

2. Issuer Name and Ticker or Trading

3. Date of Earliest Transaction

(Month/Day/Year) 08/02/2010

4. If Amendment, Date Original

Filed(Month/Day/Year)

3.

M

6. Individual or Joint/Group Filing(Check

(Check all applicable)

10% Owner

Other (specify

Applicable Line)

X_ Director

Officer (give title

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

Issuer

below)

(City) (State) (Zip) 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)

08/02/2010

(Month/Day/Year)

TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

4. Securities

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct (D) or Indirect (I) (Instr. 4)

D

Indirect Beneficial Ownership (Instr. 4)

OMB APPROVAL

3235-0287

January 31,

2005

0.5

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Number:

Expires:

response...

Estimated average

burden hours per

(A) Transaction(s) or (Instr. 3 and 4)

Α

Price Code V Amount (D)

1.624

\$0 6,512

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. Transactic Code (Instr. 8)	5. Number proof Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. I Der Sec (Ins
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Restricted Stock Units	\$ 0 (1)	08/02/2010		M		1,624	08/02/2010	(2)	Common Stock	1,624	
Restricted Stock Units	\$ 0 (1)						10/09/2011	(2)	Common Stock	2,327	
Restricted Stock Units	\$ 0 (1)						10/08/2012	(2)	Common Stock	1,712	

Reporting Owners

Reporting Owner Name / Address	Relationships						
FB	Director	10% Owner	Officer	Other			
COCHRAN PHYLLIS E							
C/O THE MOSAIC COMPANY	X						
3033 CAMPUS DRIVE, SUITE E490							
PLYMOUTH, MN 55441							

Signatures

/s/ Richard L. Mack, Attorney in Fact for Phyllis E. 08/04/2010 Cochran

> **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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