MOSAIC CO Form 5/A October 09, 2012

FORM 5

OMB APPROVAL

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

OMB Number: 3235-0362 Expires: January 31, 2005

no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction

Check this box if

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Reported 30(h) of the Investment Company Act of 1940

07/06/2012

Form 4

Transactions Reported

1. Name and Address of Reporting Person ** COCHRAN PHYLLIS E			2. Issuer Name and Ticker or Trading Symbol MOSAIC CO [MOS]	5. Relationship of Reporting Person(s) to Issuer				
(Last) (First)		(Middle)	3. Statement for Issuer's Fiscal Year Ended	(Check all applicable)				
C/O THE MO COMPANY, DRIVE, SUI	3033 CA	(Month/Day/Year) 05/31/2012 3 CAMPUS	_X_ Director 10% Owner Officer (give title below) Other (specify below)					
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Reporting				

PLYMOUTH, MNÂ 55441

X Form Filed by One Reporting Person __ Form Filed by More than One Reporting

(check applicable line)

(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)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price		5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
Common Stock	11/20/2008	Â	L5	2.1008 (6)	A	\$ 33.88	1,002.1008	I	By Husband			
Common Stock	02/19/2009	Â	L5	1.2102 (6)	A	\$ 41.35	1,003.311	I	By Husband			
Common Stock	05/21/2009	Â	L5	0.902 (6)	A	\$ 45.53	1,004.213	I	By Husband			
Common Stock	08/20/2009	Â	L4	0.9149 (6)	A	\$ 54.39	1,005.1279	I	By Husband			

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Common Stock	11/19/2009	Â	L5	0.9409 (6)	A	\$ 49.49	1,006.0688	I	By Husband
Common Stock	02/18/2010	Â	L5	0.8271 (6)	A	\$ 54.01	1,006.8959	I	By Husband
Common Stock	05/20/2010	Â	L5	1.1005 (6)	A	\$ 45.74	1,007.9964	I	By Husband
Common Stock	08/20/2010	Â	L4	0.8932 (6)	A	\$ 56.43	1,008.8896	I	By Husband
Common Stock	11/19/2010	Â	L5	0.7343 (6)	A	\$ 68.69	1,009.6239	I	By Husband
Common Stock	02/18/2011	Â	L5	0.5887 (6)	A	\$ 85.75	1,010.2126	I	By Husband
Common Stock	05/03/2011	Â	L5	0.6937 (6)	A	\$ 72.81	1,010.9063	I	By Husband
Common Stock	08/19/2011	Â	L4	0.7665 (6)	A	\$ 65.95	1,011.6728	I	By Husband
Common Stock	11/18/2011	Â	L	0.9606 (6)	A	\$ 52.66	1,012.6334	I	By Husband
Common Stock	02/17/2012	Â	L	0.9096 (6)	A	\$ 55.66	1,013.543	I	By Husband
Common Stock	Â	Â	Â	Â	Â	Â	7,839	D	Â

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

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SEC 2270 (9-02)

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

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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	7. Title and A Underlying S (Instr. 3 and	Securities	8. Pr Derir Secu (Inst
					(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Restricted Stock	\$ 0 (1)	Â	Â	Â	Â	(3)	(2)	Common Stock	1,712	

Units

Restricted Stock Units	\$ 0 (1)	Â	Â	Â	Â	Â	(4)	(2)	Common Stock	1,381
Restricted Stock Units	\$ 0 (1)	Â	Â	Â	Â	Â	(5)	(2)	Common Stock	2,908

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
COCHRAN PHYLLIS E								
C/O THE MOSAIC COMPANY	î v	Â	â	â				
3033 CAMPUS DRIVE, SUITE E490	АЛ	A	А	Α				
PLYMOUTH, MN 55441								

Signatures

/s/ Richard L. Mack, Attorney in Fact for Phyllis E.
Cochran 10/09/2012

**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).

Date

- (1) One-for-One
- (2) Not Applicable
- (3) The restricted stock units vested on October 8, 2010. Vested shares will be delivered to the reporting person on October 8, 2012.
- (4) The restricted stock units vested on October 7, 2011. Vested shares will be delivered to the reporting person on October 7, 2013.
- (5) The restricted stock units vest on October 6, 2012. Vested shares will be delivered to the reporting person on October 6, 2014.
- (6) These shares were originally reported reported as owned directly by the reporting person.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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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