MOSAIC CO Form 5 July 06, 2012

FORM 5

OMB APPROVAL

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

OMB 3235-0362 Number: January 31,

2005

no longer subject to Section 16. Form 4 or Form

Check this box if

Expires: ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). 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

Form 4

Reported

Transactions

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer COCHRAN PHYLLIS E Symbol

MOSAIC CO [MOS] (Last) (First) (Middle) 3. Statement for Issuer's Fiscal Year Ended

(Check all applicable)

(Month/Day/Year) 05/31/2012

X Director 10% Owner Officer (give title __ Other (specify below) below)

C/O THE MOSAIC COMPANY, 3033 CAMPUS DRIVE, SUITE E490

> (Street) 4. If Amendment, Date Original

6. Individual or Joint/Group Reporting

Filed(Month/Day/Year)

(check applicable line)

PLYMOUTH, MNÂ 55441

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

| (City) | (State) | (Zip) Tab | ole I - Non-De | rivative Se | curitie | es Acquir | ed, Disposed of, | or Beneficiall | y 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. Securit (A) or Dis (Instr. 3, | sposed | of (D) | 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 | 1.3488 | A | \$ 33.88 | 1,001.3488 | D | Â |
| Common Stock | 02/19/2009 | Â | L5 | 1.0843 | A | \$ 41.35 | 1,002.4331 | D | Â |
| Common Stock | 05/21/2009 | Â | L5 | 0.9744 | A | \$ 45.53 | 1,003.4075 | D | Â |
| Common Stock | 08/20/2009 | Â | L4 | 0.796 | A | \$ 54.39 | 1,004.2035 | D | Â |

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| Common Stock | 11/19/2009 | Â | L5 | 0.8883 | A | \$ 49.49 | 4,893.0918 | D | Â |
|-----------------|------------|---|----|--------|---|-------------|------------|---|---|
| Common Stock | 02/18/2010 | Â | L5 | 0.8041 | A | \$ 54.01 | 4,893.8959 | D | Â |
| Common Stock | 05/20/2010 | Â | L5 | 1.1005 | A | \$ 45.74 | 4,894.9964 | D | Â |
| Common Stock | 08/20/2010 | Â | L4 | 0.8932 | A | \$ 56.43 | 6,519.8896 | D | Â |
| Common Stock | 11/19/2010 | Â | L5 | 0.7343 | A | \$ 68.69 | 6,520.6239 | D | Â |
| Common Stock | 02/18/2011 | Â | L5 | 0.5887 | A | \$ 85.75 | 6,521.2126 | D | Â |
| Common Stock | 05/03/2011 | Â | L5 | 0.6937 | A | \$ 72.81 | 6,521.9063 | D | Â |
| Common Stock | 08/19/2011 | Â | L4 | 0.7665 | A | \$ 65.95 | 6,522.6728 | D | Â |
| Common Stock | 11/18/2011 | Â | L | 0.9606 | A | \$ 52.66 | 8,850.6334 | D | Â |
| Common Stock | 02/17/2012 | Â | L | 0.9096 | A | \$ 55.66 | 8,851.543 | D | Â |

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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) | Number | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | | 8. P Der Sec (Ins |
|---|---|---|---|---|--------|-----|--|--------------------|---|--|----------------------------|
| | | | | | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Restricted Stock Units | \$ 0 <u>(1)</u> | Â | Â | Â | Â | Â | (3) | (2) | Common Stock | 1,712 | |
| | \$ 0 (1) | Â | Â | Â | Â | Â | (4) | (2) | | 1,381 | |

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| Restricted Stock Units | | | | | | | Common Stock |
|------------------------------|----------|---|---|---|------------|-----|--------------------|
| Restricted Stock Units | \$ 0 (1) | Â | Â | Â | <u>(5)</u> | (2) | Common 2,908 Stock |

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

COCHRAN PHYLLIS E

C/O THE MOSAIC COMPANY
3033 CAMPUS DRIVE, SUITE E490

PLYMOUTH, MNÂ 55441

Signatures

Phyllis E.
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
- (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.

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.

Reporting Owners 3