

Seaton David Thomas
 Form 4
 April 17, 2012

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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. Name and Address of Reporting Person *
 Seaton David Thomas

2. Issuer Name and Ticker or Trading Symbol
 MOSAIC CO [MOS]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

ATRIA CORPORATE CENTER,
 SUITE E490, 3033 CAMPUS
 DRIVE

3. Date of Earliest Transaction
 (Month/Day/Year)
 04/16/2012

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 Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

PLYMOUTH, MN 55441

(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)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	04/16/2012		M		973	A	\$ 0 973
						D	

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

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 (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. Transaction Code (Instr. 8)	5. Number of 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. Price of Derivative Security (Instr. 5)
Restricted Stock Units	\$ 0 ⁽¹⁾	04/16/2012		M	973	⁽³⁾ ⁽²⁾	Common Stock 973	\$ 0
Restricted Stock Units	\$ 0 ⁽¹⁾					⁽⁴⁾ ⁽²⁾	Common Stock 1,712	
Restricted Stock Units	\$ 0 ⁽¹⁾					⁽⁵⁾ ⁽²⁾	Common Stock 1,381	
Restricted Stock Units	\$ 0 ⁽¹⁾					⁽⁶⁾ ⁽²⁾	Common Stock 2,908	

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Seaton David Thomas
 ATRIA CORPORATE CENTER, SUITE E490
 3033 CAMPUS DRIVE
 PLYMOUTH, MN 55441

X

Signatures

/s/Richard L. Mack, Attorney-in-Fact for David T. Seaton

04/17/2012

 **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 April 16, 2010. Vested shares will be delivered to the reporting person on April 16, 2012.

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- (4) The restricted stock units vested on October 8, 2010. Vested shares will be delivered to the reporting person on October 8, 2012.
- (5) The restricted stock units vest on October 7, 2011. Vested shares will be delivered to the reporting person on October 7, 2013.
- (6) 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 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.