SEIBERT STEVEN M

Form 4

October 13, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

Expires:

3235-0287

OMB APPROVAL

January 31, 2005

0.5

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if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * SEIBERT STEVEN M

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

below)

(Last)

(First) (Middle)

MOSAIC CO [MOS] 3. Date of Earliest Transaction

(Month/Day/Year)

10/08/2009

(Check all applicable)

10% Owner

Other (specify

C/O THE MOSAIC COMPANY, 3033 CAMPUS

DRIVE, SUITE E490

4. If Amendment, Date Original

(Month/Day/Year)

Officer (give title

6. Individual or Joint/Group Filing(Check Applicable Line)

X_ Director

(Street) Filed(Month/Day/Year)

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

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

PLYMOUTH, MN 55441

(State) (Zip) 2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of 6. Ownership 7. Nature of Securities Form: Direct Indirect Beneficially (D) or Beneficial Ownership Owned Indirect (I) Following (Instr. 4) (Instr. 4)

Reported (A) Transaction(s)

or Code V Amount (D) Price

(Instr. 3 and 4)

Common Stock

(City)

1. Title of

Security

(Instr. 3)

7,161 D

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

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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 Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exerci Expiration Da (Month/Day/Y	te	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	(2)	Common Stock	1,624	
Restricted Stock Units	\$ 0 (1)					(3)	(2)	Common Stock	2,327	
Restricted Stock Units	\$ 0 (1)	10/08/2009		A	1,712	<u>(4)</u>	(2)	Common Stock	1,712	

Reporting Owners

Reporting Owner Name / Address	Relationships					
reporting Owner Name / Names	Director	10% Owner	Officer	Other		
SEIBERT STEVEN M C/O THE MOSAIC COMPANY 3033 CAMPUS DRIVE, SUITE E490 PLYMOUTH, MN 55441	X					

Signatures

s/Richard L. Mack, Attorney-in-Fact for Steven M. 10/13/2009 Seibert **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 9, 2009. Vested shares will be delivered to the reporting person on October 9, 2011.
- (4) The restricted stock units vest on October 8, 2010. Vested shares will be delivered to the reporting person on October 8, 2012.

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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