

SEIBERT STEVEN M  
Form 4  
January 31, 2011

**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 \*  
SEIBERT STEVEN M

(Last) (First) (Middle)

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

(Street)

PLYMOUTH, MN 55441

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
01/28/2011

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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

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

**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                    | 01/28/2011                           |  | S                              |   | 840   | D  | \$ 79.8                           |
|                                 |                                      |  |                                |   | 7,945   | D  |                                   |

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. 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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|

|                        |                     |  |  | Code V (A) (D) | Date Exercisable | Expiration Date | Title        | Amount or Number of Shares |
|------------------------|---------------------|--|--|----------------|------------------|-----------------|--------------|----------------------------|
| Restricted Stock Units | \$ 0 <sup>(1)</sup> |  |  |                | <u>(3)</u>       | <u>(2)</u>      | Common Stock | 2,327                      |
| Restricted Stock Units | \$ 0 <sup>(1)</sup> |  |  |                | <u>(4)</u>       | <u>(2)</u>      | Common Stock | 1,712                      |
| Restricted Stock Units | \$ 0 <sup>(1)</sup> |  |  |                | <u>(5)</u>       | <u>(2)</u>      | Common Stock | 1,381                      |

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

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. Seibert

01/31/2011

\_\_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 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.

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