

MOSAIC CO  
Form 4  
October 10, 2006

**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 \*  
STRANGHOENER LAWRENCE W

(Last) (First) (Middle)  
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)  
10/06/2006

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)  
Exec. VP & CFO

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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D) Code V Amount (D) Price                                |   |  |                                   |
| Common Stock                    |                                      |  |                                |   | 3,100   | D  |                                   |
| Common Stock                    |                                      |  |                                |   | 100   | I  | By Daughter                       |
| Common Stock                    |                                      |  |                                |   | 100   | I  | By Daughter                       |
| Common Stock                    |                                      |  |                                |   | 50  | I  | by Son                            |

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)

| 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) |              |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--------------|----------------------------|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable   | Expiration Date   | Title        | Amount or Number of Shares |
| Restricted Stock Units                     | \$ 0 <sup>(6)</sup>                                    |                                      |  |                                |   | 10/29/2008   | <sup>(2)</sup>  | Common Stock | 23,27                      |
| Stock Option (right to buy)                | \$ 15.04   |                                      |  |                                |   | 09/22/2005 <sup>(1)</sup>                                | 09/22/2014  | Common Stock | 52,08                      |
| Restricted Stock Units                     | \$ 0 <sup>(6)</sup>                                    |                                      |  |                                |   | 08/01/2008   | <sup>(2)</sup>  | Common Stock | 21,64                      |
| Stock Option (right to buy)                | \$ 17.29   |                                      |  |                                |   | 08/01/2006 <sup>(3)</sup>                                | 08/01/2015  | Common Stock | 64,93                      |
| Restricted Stock Units                     | \$ 0 <sup>(6)</sup>                                    |                                      |  |                                |   | 08/04/2009   | <sup>(2)</sup>  | Common Stock | 20,37                      |
| Stock Option (right to buy)                | \$ 15.45   |                                      |  |                                |   | 08/04/2007 <sup>(4)</sup>                                | 08/04/2016  | Common Stock | 61,12                      |
| Restricted Stock Units                     | \$ 0 <sup>(6)</sup>                                    |                                      |  |                                |   | 08/04/2007 <sup>(5)</sup>                                | <sup>(2)</sup>  | Common Stock | 64,72                      |
| Restricted Stock Units                     | \$ 0 <sup>(6)</sup>                                    | 10/06/2006                           |  | A                              | 4,350   | 10/06/2009   | <sup>(2)</sup>  | Common Stock | 4,350                      |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                |       |
|--|---------------|-----------|----------------|-------|
|  | Director      | 10% Owner | Officer        | Other |
| STRANGHOENER LAWRENCE W<br>3033 CAMPUS DRIVE<br>SUITE E490<br>PLYMOUTH, MN 55441 |               |           | Exec. VP & CFO |       |

## Signatures

s/Richard L. Mack, Attorney in fact for Lawrence W. Stranghoener

10/10/2006

\_\_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) Vests 1/3 on 9/22/2005, 1/3 on 9/22/2006 and 1/3 on 9/22/2007.
- (2) Not applicable.
- (3) Vests 33.33% on 8/1/2006, 8/1/2007 and 8/1/2008.
- (4) Vests 33.33% on 8/4/2007, 8/4/2008 and 8/4/2009.
- (5) Vests 1/2 on 8/4/2007 and 1/2 on 8/4/2008.
- (6) one-for-one

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.