

MOSAIC CO  
Form 4  
May 20, 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 \*  
Cargill, Inc

(Last) (First) (Middle)  
15615 MCGINTY ROAD WEST  
(Street)

WAYZATA, MN 55391

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
05/19/2011

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
\_\_\_ Form filed by One Reporting Person  
\_X\_ 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)	(A) or (D)	Amount	Price	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 Indirect Ownership (Instr. 4)
Common Stock	05/19/2011		J <sup>(1)</sup>	30,155,221	D	0		I <sup>(1)</sup>		By Cargill GNS I, LLC <sup>(1)</sup>
Common Stock	05/19/2011		J <sup>(1)</sup>	243,972,618	D	0		I <sup>(1)</sup>		By Cargill CFI, LLC <sup>(1)</sup>
Common Stock	05/19/2011		J <sup>(1)</sup>	0 <sup>(1)</sup>	A <sup>(1)</sup>		<sup>(1)</sup>	285,759,772 <sup>(2)</sup>	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)

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)	9. Number of Derivative Securities Owned Following Reporting Transaction (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Cargill, Inc 15615 MCGINTY ROAD WEST WAYZATA, MN 55391		X		
Cargill CFI, LLC 15615 MCGINTY ROAD WEST WAYZATA, MN 55391		X		
Cargill GNS I, LLC 15615 MCGINTY ROAD WEST WAYZATA, MN 55391		X		

## Signatures

/s/ Linda L. Cutler 05/20/2011

\*\*Signature of Reporting Person Date

/s/ Linda L. Cutler 05/20/2011

\*\*Signature of Reporting Person Date

05/20/2011

/s/ Linda L.  
Cutler

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) Intra-company transfer of shares to Cargill, Incorporated from its wholly owned subsidiaries Cargill GNS I, LLC (formerly known as GNS I (U.S.) Corp.) and Cargill CFI, LLC (formerly known as Cargill Fertilizer, Inc.), effective May 19, 2011.
- (2) Includes 30,155,221 shares previously held indirectly by Cargill GNS I, LLC and 243,972,618 shares previously held indirectly by Cargill CFI, LLC.

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.