

MOSAIC CO  
Form 4  
September 13, 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 \*  
**CARGILL INC**

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

**WAYZATA, MN 55343**

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
**07/01/2006**

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)	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 Beneficial Ownership (Instr. 4)
Common Stock	07/01/2006		A	35,177,450	A <u>(1)</u> 243,972,618 <u>(2)</u>	I	By Cargill Fertilizer Inc.
Common Stock					<u>(2)</u> 30,155,221	I	By GNS I (U.S.) Corp
Common Stock					<u>(2)</u> 11,631,933	D <u>(3)</u>	

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 Security (Instr. 3 and 4)		
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount
Convertible Class B	\$ 0	07/01/2006		C	5,458,955 (4)	10/22/2004 07/01/2006	Common Stock	5,	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CARGILL INC 15615 MCGINTY ROAD WEST WAYZATA, MN 55343		X		
Cargill Fertilizer, Inc. 15615 MCGINTY ROAD WEST WAYZATA, MN 55391		X		
GNS I (US) CORP 15615 MCGINTY ROAD WEST WAYZATA, MN 55391		X		

## Signatures

s/Linda L. Cutler 09/12/2006

\_\_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) Reflects automatic conversion of Class B Common Stock into shares of Common Stock pursuant to Certificate of Designations of Class B Common Stock.
- (2) Number of shares has been adjusted to reflect an inter-company re-allocation of shares.

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(3) Held by Cargill, Inc..

(4) Converted into 35,177,450 shares of common stock issued to Cargill Fertilizer, Inc.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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