

MOSAIC CO

Form 3

October 22, 2004

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**Washington, D.C. 20549**

OMB APPROVAL

OMB
Number: 3235-0104Expires: January 31,
2005Estimated average
burden hours per
response... 0.5**INITIAL STATEMENT OF 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. Date of Event Requiring
Statement

(Month/Day/Year)

10/22/2004

3. Issuer Name and Ticker or Trading Symbol
MOSAIC CO [MOS]4. Relationship of Reporting
Person(s) to Issuer

(Check all applicable)

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

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

6. Individual or Joint/Group
Filing(Check Applicable Line)
____X____ Form filed by One Reporting
Person
____ Form filed by More than One
Reporting Person

Table I - Non-Derivative Securities Beneficially Owned1. Title of Security
(Instr. 4)2. Amount of Securities
Beneficially Owned
(Instr. 4)3. Ownership
Form:
Direct (D)
or Indirect
(I)
(Instr. 5)4. Nature of Indirect Beneficial
Ownership
(Instr. 5)

Common Stock

650

D

A

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

SEC 1473 (7-02)

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form displays a
currently valid OMB control number.**

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)1. Title of Derivative Security
(Instr. 4)2. Date Exercisable and
Expiration Date
(Month/Day/Year)Date
ExercisableExpiration
Date3. Title and Amount of
Securities Underlying
Derivative Security
(Instr. 4)Title
Amount or
Number of4. Conversion
or Exercise
Price of
Derivative
Security5. Ownership
Form of
Derivative
Security:
Direct (D)
or Indirect6. Nature of Indirect
Beneficial Ownership
(Instr. 5)

Shares

(I)
(Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CARGILL INC 15615 MCGINTY ROAD WEST WAYZATA, MN 55343	Â	Â X	Â	Â

Signatures

s/Robert L.
Lumpkins

10/22/2004

__Signature of
Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(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).

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.