

REDDING CINDY C

Form 4

January 31, 2011

FORM 4
UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

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

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person *
REDDING CINDY C

(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
__X__ Officer (give title ____ Other (specify
below) below)

VP-Human Resources

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 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				(A) or (D)	Price		By 401(k) Plan
Common Stock	01/28/2011		M	8,194	A \$ 40.03	12,186	D
Common Stock	01/28/2011		S	8,194	D \$ 79.0549	3,992	D

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

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form**

SEC 1474
(9-02)

displays a currently valid OMB control number.

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
Stock Option (Right to Buy)	\$ 40.03	01/28/2011		M	8,194	<u>(6)</u> 08/02/2017	Common Stock 8,194
Stock Option (Right to Buy)	\$ 127.21					<u>(3)</u> 07/31/2018	Common Stock 2,560
Restricted Stock Units	\$ 0 <u>(1)</u>					07/31/2011 <u>(2)</u>	Common Stock 1,376
Stock Option (Right to Buy)	\$ 52.72					<u>(4)</u> 07/27/2019	Common Stock 5,409
Restricted Stock Units	\$ 0 <u>(1)</u>					07/27/2012 <u>(2)</u>	Common Stock 5,121
Stock Option (Right to Buy)	\$ 44.93					<u>(5)</u> 07/27/2020	Common Shares 8,104
Restricted Stock Units	\$ 0 <u>(1)</u>					07/27/2013 <u>(2)</u>	Common Shares 4,451

Reporting Owners

Reporting Owner Name / Address	Relationships
Reporting Owners	

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Director 10% Owner Officer

Other

REDDING CINDY C
C/O THE MOSAIC COMPANY
3033 CAMPUS DRIVE, SUITE E490
PLYMOUTH, MN 55441

VP-Human Resources

Signatures

/s/ Richard L. Mack, Attorney-in-Fact for Cindy C.
Redding

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) Grant Date 07/31/2008; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (4) Grant Date 07/27/2009; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (5) Grant Date 07/27/2010; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (6) This Stock Option is 100% exercisable.
- (7) Includes 0.695 shares acquire pursuant to a dividend reinvestment feature of the Mosaic Stock Fund, an investment alternative in the 401(k) Plan.

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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