#### **BEUG NORMAN B**

Form 4

January 28, 2011

# FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB** 

Expires:

3235-0287 Number: January 31,

**OMB APPROVAL** 

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Check this box if no longer subject to Section 16. Form 4 or

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * BEUG NORMAN B			2. Issuer Name <b>and</b> Ticker or Trading Symbol MOSAIC CO [MOS]	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	Director 10% Owner		
C/O THE MOSAIC COMPANY, 3033 CAMPUS DRIVE, SUITE E490		1PUS	01/27/2011			
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person		
PLYMOUTH, MN 55441				Form filed by More than One Reporting Person		
(City)	(State)	(Zip)	Table I - Non-Derivative Securities A	cquired, Disposed of, or Beneficially Owned		

						_			-
1.Title of Security	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if	3. Transactio	4. Securi			5. Amount of Securities	6. Ownership Form: Direct	7. Nature of Indirect
(Instr. 3)		any	Code	(Instr. 3,	4 and	5)	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)				Owned	Indirect (I)	Ownership
							Following	(Instr. 4)	(Instr. 4)
					(4)		Reported		
					(A)		Transaction(s)		
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	01/27/2011		S	3,280	D	\$ 80.13	93,374	D	

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

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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8. I Der Sec (In:

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. Transactic Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		e	7. Title and A Underlying S (Instr. 3 and	Securities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 40.03					<u>(6)</u>	08/02/2017	Common Stock	19,368
Stock Option (Right to Buy)	\$ 127.21					(3)	07/31/2018	Common Stock	4,755
Restricted Stock Units	\$ 0 (1)					07/31/2011	<u>(2)</u>	Common Stock	2,555
Stock Option (Right to Buy)	\$ 52.72					<u>(4)</u>	07/27/2019	Common Stock	7,813
Restricted Stock Units	\$ 0 (1)					07/27/2012	<u>(2)</u>	Common Stock	7,398
Stock Option (right to Buy)	\$ 44.93					<u>(5)</u>	07/27/2020	Common Stock	11,143
Restricted Stock Units	\$ 0 (1)					07/27/2013	(2)	Common Stock	6,121

# **Reporting Owners**

Reporting Owner Name / Address	Relationships						
coporating of the state of state of	Director	10% Owner	Officer	Other			
BEUG NORMAN B			Senior Vice President				
C/O THE MOSAIC COMPANY							

Reporting Owners 2

3033 CAMPUS DRIVE, SUITE E490 PLYMOUTH, MN 55441

# **Signatures**

/s/ Richard L. Mack, Attorney-in-Fact for Norman B.
Beug
01/28/2011

\*\*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.

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.

Signatures 3