Popowich James L. Form 4 October 11, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

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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

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Popowich James L.

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

(Last) (First)

MOSAIC CO [MOS] 3. Date of Earliest Transaction

(Check all applicable)

C/O THE MOSAIC

(State)

10/09/2011

(Month/Day/Year)

10/06/2011

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

COMPANY, 3033 CAMPUS DRIVE, SUITE E490

> (Street) 4. If Amendment, Date Original

> > (Month/Day/Year)

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

PLYMOUTH, MN 55441

1.Title of

Security

(Instr. 3)

Common

Stock

(City) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Middle)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) or

Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

1.163 M \$0 (6)

6,460 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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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. Transacti Code (Instr. 8)	Securiti Acquire	es ed (A) or ed of (D)	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
Restricted Stock Units	\$ 0 (2)	10/09/2011		M		2,327 (6)	(3)	<u>(1)</u>	Common Stock	2,327
Restricted Stock Units	\$ 0 (2)						<u>(4)</u>	<u>(1)</u>	Common Stock	1,712
Restricted Stock Units	\$ 0 (2)						(5)	<u>(1)</u>	Common Stock	1,381
Restricted Stock Units	\$ 0 (2)	10/06/2011		A	2,908		<u>(7)</u>	<u>(1)</u>	Common Stock	2,908

Reporting Owners

Reporting Owner Name / Address	Relationships					
F-	Director	10% Owner	Officer	Other		
Popowich James L. C/O THE MOSAIC COMPANY 3033 CAMPUS DRIVE, SUITE E490 PLYMOUTH, MN 55441	X					

Signatures

s/ Richard L. Mack, Attorney-in-Fact for James L.
Popowich 10/11/2011

**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) Not applicable.
- (2) One-for-One
- (3) The restricted stock units vested on October 9, 2009. Vested shares will be delivered to the reporting person on October 9, 2011.
- (4) The restricted stock units vested on October 8, 2010. Vested shares will be delivered to the reporting person on October 8, 2012.

Reporting Owners 2

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- (5) The restricted stock units vested on October 7, 2011. Vested shares will be delivered to the reporting person on October 7, 2013.
 - The reporting person, pursuant to the terms of the Restricted Stock Unit Agreement under which the award of restricted stock units was
- (6) made, elected to receive 50% of the restricted stock units in the form of cash with the balance paid in the form of shares of common stock at the time the award was paid.
- (7) The restricted stock units vest on October 6, 2012. Vested shares will be delivered to the reporting person on October 6, 2014.

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.