

O'Rourke James Calvin
 Form 4
 July 31, 2012

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 *
 O'Rourke James Calvin

(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)
 07/27/2012

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)
 Executive VP - Operations

6. Individual or Joint/Group Filing(Check Applicable Line)
 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 Ownership (Instr. 4)	
				(A) or (D)	Price			
				Code	V	Amount		
Common Stock	07/27/2012		M		11,381	A	\$ 0 20,600	D
Common Stock	07/27/2012		F ⁽⁶⁾		4,563	D	\$ 58.73 16,037	D

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

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SEC 1474 (9-02)

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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)	\$ 52.72					(7) 07/27/2019	Common Stock 12,019
Restricted Stock Units	\$ 0 (1)	07/27/2012		M	11,381	07/27/2012 (2)	Common Stock 11,381
Stock Option (Right to Buy)	\$ 44.93					(3) 07/27/2020	Common Stock 20,259
Restricted Stock Units	\$ 0 (1)					07/27/2013 (2)	Common Stock 11,128
Stock Option (Right to Buy)	\$ 70.62					(4) 07/21/2021	Common Stock 16,150
Restricted Stock Units	\$ 0 (1)					07/21/2014 (2)	Common Stock 7,080
Stock Option (Right to Buy)	\$ 57.62					(5) 07/19/2022	Common Stock 27,681
Restricted Stock Units	\$ 0 (1)					07/19/2015 (2)	Common Stock 10,992

Reporting Owners

Reporting Owner Name / Address

Relationships

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Director 10% Owner Officer Other

O'Rourke James Calvin
C/O THE MOSAIC COMPANY
3033 CAMPUS DRIVE, SUITE E490
PLYMOUTH, MN 55441

Executive VP
- Operations

Signatures

/s/ Richard L. Mack, Attorney-in-Fact for James C.
O'Rourke

07/31/2012

__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 07/27/2010; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (4) Grant Date 07/21/2011; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (5) Grant Date 07/19/2012; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (6) Shares withheld to cover tax liability incurred as a result of vesting of Restricted Stock Units.
- (7) 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.
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