

O'Rourke James Calvin
 Form 4
 July 23, 2012

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

OMB APPROVAL

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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)
 07/19/2012

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)
 EVP & Chief Operating Officer

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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| Common Stock | | | | (A) or (D) Code V Amount (D) Price | 9,219 | 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 displays a currently valid OMB control number.

SEC 1474 (9-02)

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. 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 | | | | | <u>(3)</u> | 07/27/2019 | Common Stock | 12,019 |
| Restricted Stock Units | \$ 0 <u>(1)</u> | | | | | 07/27/2012 | <u>(2)</u> | Common Stock | 11,381 |
| Stock Option (Right to Buy) | \$ 44.93 | | | | | <u>(4)</u> | 07/27/2020 | Common Stock | 20,259 |
| Restricted Stock Units | \$ 0 <u>(1)</u> | | | | | 07/27/2013 | <u>(2)</u> | Common Stock | 11,128 |
| Stock Option (Right to Buy) | \$ 70.62 | | | | | <u>(5)</u> | 07/21/2021 | Common Stock | 16,150 |
| Restricted Stock Units | \$ 0 <u>(1)</u> | | | | | 07/21/2014 | <u>(2)</u> | Common Stock | 7,080 |
| Stock Option (Right to Buy) | \$ 57.62 | 07/19/2012 | | A | 27,681 | <u>(6)</u> | 07/19/2022 | Common Stock | 27,681 |
| Restricted Stock Units | \$ 0 <u>(1)</u> | 07/19/2012 | | A | 10,992 | 07/19/2015 | <u>(2)</u> | Common Stock | 10,992 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--------------------------------|---------------|-----------|-------------|-------|
| | Director | 10% Owner | Officer | Other |
| O'Rourke James Calvin | | | EVP & Chief | |

