

O'Rourke James Calvin
 Form 4
 March 12, 2018

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2015
 Estimated average burden hours per response... 0.5

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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)
 03/08/2018

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)
 President & CEO

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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) Code V Amount (D) Price | | | Reporting Person's Spouse |
| Common Stock | | | | | 3,000 | I | Reporting Person's Spouse |
| Common Stock | | | | | 112,690 | 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 Number Shares |
| Stock Option (Right to Buy) | \$ 52.72 | | | | | <u>(1)</u> | 07/27/2019 | Common Stock | 12,019 |
| Stock Option (Right to Buy) | \$ 44.93 | | | | | <u>(1)</u> | 07/27/2020 | Common Stock | 20,259 |
| Stock Option (Right to Buy) | \$ 70.62 | | | | | <u>(1)</u> | 07/21/2021 | Common Stock | 16,150 |
| Stock Option (Right to Buy) | \$ 57.62 | | | | | <u>(1)</u> | 07/19/2022 | Common Stock | 27,681 |
| Stock Option (Right to Buy) | \$ 54.03 | | | | | <u>(1)</u> | 07/18/2023 | Common Stock | 29,981 |
| Stock Option (Right to Buy) | \$ 49.73 | | | | | <u>(1)</u> | 03/07/2024 | Common Stock | 33,700 |
| Stock Option (Right to Buy) | \$ 50.43 | | | | | <u>(1)</u> | 03/05/2025 | Common Stock | 37,300 |
| Restricted Stock Units | \$ 0 <u>(2)</u> | | | | | | 08/05/2018 | <u>(3)</u> Common Stock | 22,432 |
| Stock Option (Right to Buy) | \$ 28.49 | | | | | <u>(4)</u> | 03/03/2026 | Common Stock | 179,210 |

Buy)

Stock

Option
(Right to
Buy)

\$ 30.42

(5)

03/02/2027

Common
Stock

168,18

Restricted

Stock
Units

\$ 0 (2)

03/08/2018

A

68,401

03/08/2021

(3)

Common
Stock

68,401

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-----------------|-------|
| | Director | 10% Owner | Officer | Other |
| O'Rourke James Calvin C/O THE MOSAIC COMPANY 3033 CAMPUS DRIVE, SUITE E490 PLYMOUTH, MN 55441 | X | | President & CEO | |

Signatures

/s/ Mark J. Isaacson, Attorney-in-Fact for James C.
O'Rourke

03/12/2018

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) This Stock Option is 100% exercisable.

(2) One-for-One

(3) Not Applicable

(4) Grant Date 03/03/2016; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.

(5) Grant Date 03/02/2017; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.

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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