UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the

Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): December 21, 2007

THE MOSAIC COMPANY

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction

of incorporation)

001-32327 (Commission File Number) 20-0891589 (IRS Employer

Identification No.)

3033 Campus Drive

Suite E490

Plymouth, Minnesota55441(Address of principal executive offices)(Zip Code)Registrant s telephone number, including area code: (800) 918-8270

Not applicable

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(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01. Regulation FD Disclosure.

The following information is being furnished in accordance with General Instruction B.2. of Form 8-K and shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the Exchange Act), or otherwise subject to the liabilities of that section, nor shall it be deemed to be incorporated by reference in any filing under the Securities Act of 1933, as amended (the Securities Act), or the Exchange Act, except as expressly set forth by specific reference in such filing:

Furnished herewith as Exhibit 99 and incorporated by reference herein is the text of The Mosaic Company s press release announcing its election to prepay \$150 million of term loans.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Reference is made to the Exhibit Index hereto with respect to the exhibit furnished herewith. The exhibit listed in the Exhibit Index hereto is being furnished in accordance with General Instruction B.2. of Form 8-K and shall not be deemed filed for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that section, nor shall it be deemed to be incorporated by reference in any filing under the Securities Act or the Exchange Act, except as expressly set forth by specific reference in such filing.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

THE MOSAIC COMPANY

Date: December 21, 2007

By:/s/ Richard L. MackName:Richard L. MackTitle:Senior Vice President, General

Counsel and Corporate Secretary

EXHIBIT INDEX

Exhibit No.Description99Press release, dated December 21, 2007, of The Mosaic Company.