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): February 1, 2005

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.)

12800 Whitewater Drive

55343

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Minnetonka, Minnesota (Address of principal executive offices)

(Zip Code)

Registrant s telephone number, including area code: (952) 984-0316

Not applicable

(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 8.01. Other Events.

On February 1, 2005, Douglas A. Pertz, a director of the registrant, entered into a sales plan (the Plan) intended to comply with the requirements of Rule 10b5-1(c)(1)(i)(B) under the Securities Exchange Act of 1934, as amended. Pursuant to the Plan, Mr. Pertz has instructed Goldman, Sachs & Co., as broker, to sell up to 2,806,945 shares of the registrant s common stock, par value 0.01 per share, representing approximately 0.74% of the registrant s outstanding common stock, beneficially owned by Mr. Pertz pursuant to limit orders at specified prices through January 31, 2006. Mr. Pertz and Goldman, Sachs & Co. may amend or terminate the Plan, if the registrant does not object to the amendment or termination, at a time when Mr. Pertz is not aware of material nonpublic information concerning the registrant or its securities.

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: February 7, 2005

By: /s/ Richard L. Mack

Name: Richard L. Mack Title: Senior Vice President, General Counsel and Corporate Secretary