

**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): March 22, 2010

FMC Technologies, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

1-16489
(Commission
File Number)

36-4412642
(I.R.S. Employer
Identification No.)

1803 Gears Road
Houston, Texas 77067
(Address, Including Zip Code, of Principal Executive Offices)

Registrant's telephone number, including area code: (281) 591-4000

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:

- 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 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

On March 22, 2010, FMC Technologies, Inc. announced the appointment of John T. Grep as President and Chief Operating Officer effective April 1, 2010, as approved by the Board of Directors. Mr. Grep's responsibilities will include the Business Development, Information Technologies, Industry Relations and Security functions for the Corporation. Prior to this appointment, Mr. Grep served as Executive Vice President, Energy Systems since 2007, responsible for all of the businesses of the Energy Production and Energy Processing segments. From 2004, Mr. Grep served as Vice President of Energy Production, an appointment he received after serving as General Manager of Energy Production.

A press release issued by FMC Technologies, Inc. on March 22, 2010, announcing Mr. Grep's appointment is attached hereto as Exhibit 99.1.

Item 9.01 Financial Statements and Exhibits

(d) Exhibit

99.1 Press release issued by FMC Technologies, Inc. dated March 22, 2010.
