# **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): April 27, 2006

# MILLENNIUM CHEMICALS INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation)

1-12091 (Commission File Number) 22-3436215 (I.R.S. Employer Identification No.)

Two Greenville Crossing, 4001 Kennett Pike, Suite 238 Greenville, Delaware (Address of principal executive offices)

19807 (Zip Code)

(713) 652-7200

(Registrant s telephone number, including area code)

Not Applicable

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

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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))

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#### Item 2.02 Results of Operations and Financial Condition

On April 27, 2006, Lyondell Chemical Company ( Lyondell ) issued a press release announcing Lyondell s, Equistar Chemicals, LP s ( Equistar ) and Millennium Chemicals Inc. s ( Millennium ) results its first quarter of 2006, which is furnished herewith as Exhibit 99.1 and incorporated by reference into this Item 2.02. As a result of Lyondell s November 30, 2004 acquisition of Millennium, Equistar and Millennium are wholly owned subsidiaries of Lyondell.

Lyondell will host a conference call on April 27, 2006 at 11:30 a.m. Eastern Time to discuss the results. The call will be broadcast live on Lyondell s web site at www.lyondell.com/earnings. A replay of the call will be available on the web site at www.lyondell.com/earnings at 2:30 p.m. Eastern Time on April 27, 2006. Reconciliations of non-GAAP financial measures to GAAP financial measures, together with any other applicable disclosures, including the earnings release, will be available at 11:30 a.m. Eastern Time on April 27, 2006 at www.lyondell.com/earnings.

#### **Item 9.01 Financial Statements and Exhibits**

- (c) Exhibits.
  - 99.1 Press Release (filed as Exhibit 99.1 to Lyondell s Current Report on Form 8-K dated as of April 27, 2006 and incorporated herein by reference)

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#### **SIGNATURE**

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.

## MILLENNIUM CHEMICALS INC.

By: /s/ Kerry A. Galvin Name: Kerry A. Galvin

Title: Senior Vice President, General Counsel &

Secretary

Date: April 27, 2006

### INDEX TO EXHIBITS

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