

MILLENNIUM CHEMICALS INC  
Form 15-12B  
December 01, 2004

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 15**

**CERTIFICATION AND NOTICE OF TERMINATION OF REGISTRATION UNDER SECTION 12(g) OF THE SECURITIES EXCHANGE ACT OF 1934 OR SUSPENSION OF DUTY TO FILE REPORTS UNDER SECTIONS 13 AND 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.**

Commission File Number 1-12091

**Millennium Chemicals Inc.**

---

(Exact name of registrant as specified in its charter)

**20 Wight Avenue, Suite 100**

**Hunt Valley, MD 21030**

**(410) 229-4400**

---

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Common Stock**

---

(Title of each class of securities covered by this Form)

**4% Convertible Senior Debentures due 2023\***

---

(Titles of all other classes of securities for which a duty to file reports under section 13(a) or 15(d) remains)

Please place an X in the box(es) to designate the appropriate rule provision(s) relied upon to terminate or suspend the duty to file reports:

Rule 12g-4(a)(1)(i) x	Rule 12h-3(b)(1)(i) ..
Rule 12g-4(a)(1)(ii) ..	Rule 12h-3(b)(1)(ii) ..
Rule 12g-4(a)(2)(i) ..	Rule 12h-3(b)(2)(i) ..
Rule 12g-4(a)(2)(ii) ..	Rule 12h-3(b)(2)(ii) ..
	Rule 15d-6 ..

Approximate number of holders of record as of the certification or notice date: 2

Pursuant to the requirements of the Securities Exchange Act of 1934, Millennium Chemicals Inc. has caused this certification/notice to be signed on its behalf by the undersigned duly authorized person.

**MILLENNIUM CHEMICALS INC.**

Date: December 1, 2004

By: /s/ KERRY A. GALVIN

---

Kerry A. Galvin  
Senior Vice President,  
General Counsel and Secretary

\* These debentures are convertible into the common stock, par value \$1.00 per share, of Lyondell Chemical Company.