

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 22, 2010**

**MINERALS TECHNOLOGIES INC.**

(Exact name of registrant as specified in its charter)

**Delaware**

(State or other jurisdiction  
of incorporation)

**1-11430**

(Commission File  
Number)

**25-1190717**

(IRS Employer  
Identification No.)

**405 Lexington Avenue, New York, NY**

(Address of principal executive offices)

**10174-0002**

(Zip Code)

**(212) 878-1800**

(Registrant's telephone number, including area code)

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))
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**Item 8.01****Other Events.**

On February 22, 2010, Minerals Technologies Inc. issued a press release announcing that its Board of Directors has authorized a share repurchase program of \$75 million over a two-year period.

A copy of the press release is included as Exhibit 99.1 and is incorporated into this Item 8.01 by reference.

**Item 9.01****Financial Statements and Exhibits.**

- (d) Exhibits
  - 99.1 Press Release dated February 22, 2010
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**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.

**MINERALS TECHNOLOGIES INC.**  
(Registrant)

By: /s/ **Thomas J. Meek**

Name: Thomas J. Meek  
Title: Vice President, General Counsel and Secretary

Date: February 22, 2010

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**MINERALS TECHNOLOGIES INC.**

**EXHIBIT INDEX**

<b>Exhibit No.</b>	<b>Subject Matter</b>
99.1	Press Release dated February 22, 2010





## EXHIBIT 99.1

# News

For Immediate Release  
February 22, 2010

Contact:  
Rick B. Honey  
(212) 878-1831

### **MINERALS TECHNOLOGIES' BOARD OF DIRECTORS APPROVES \$75 MILLION SHARE REPURCHASE PROGRAM**

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NEW YORK, February 22—The Board of Directors of Minerals Technologies Inc. (NYSE: MTX) authorized a share repurchase program of \$75 million over a two-year period. This authorization succeeds the previous repurchase program that expired in October of 2009.

“This authorization will permit the company to renew our share repurchase program that was suspended to conserve cash during the fourth quarter of 2008 when the worldwide economy took a dramatic downturn,” said Joseph C. Muscari, chairman and chief executive officer. “We expect to continue with the balanced, opportunistic approach to buying back our shares that we had been following under previous authorizations.”

Minerals Technologies Inc. is a global resource- and technology-based growth company that develops, produces and markets worldwide a broad range of specialty mineral, mineral-based and synthetic mineral products and related systems and services. The company recorded sales of \$907.3 million in 2009.

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*For further information about Minerals Technologies Inc. look on the internet at <http://www.mineralstech.com/>*

