

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): **September 29, 2005**

MINERALS TECHNOLOGIES INC.

(Exact name of registrant as specified in its charter)

Delaware



(State or other jurisdiction
of incorporation)

1-3295



(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))

Item 2.02 Results of Operations and Financial Condition.

On September 29, 2005 Minerals Technologies Inc. issued a press release concerning a reduced earnings estimate for the full year 2005 due to continued weakness in the third quarter. A copy of the press release is attached as Exhibit 99.1.

The information in this Item 2.02 and Exhibit 99.1 shall not be deemed filed for the purposes of Section 18 of the Securities and Exchange Act of 1934, as amended, or incorporated by reference in any filing under the Securities Act of 1933, as amended, except as shall be expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(c) Exhibits

99.1 Press Release dated September 29, 2005

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/ Kirk G. Forrest


Name: Kirk G. Forrest
Title: Secretary

Date: September 29, 2005

MINERALS TECHNOLOGIES INC.

EXHIBIT INDEX

Exhibit No.	Subject Matter
99.1	Press Release dated September 29, 2005

News

For Immediate Release
September 29, 2005

Contact:

Rick B. Honey
(212) 878-1831

**MINERALS TECHNOLOGIES INC. REDUCES EARNINGS ESTIMATE
FOR FULL YEAR 2005 DUE TO
CONTINUED WEAKNESS IN THE THIRD QUARTER**

***Company Cites Slower Market Conditions,
Additional Costs of New Facilities and Effects of Recent Hurricanes***

NEW YORK, September 29--Minerals Technologies Inc. (NYSE: MTX) today announced that, because of weakness in the third quarter, it is revising its full year diluted earnings-per-share guidance by about \$0.15 per share to \$2.60 to \$2.70.

The weakness is a result of several factors:

- Lower production in the steel industry in North America and Europe;
- continued higher than anticipated start-up costs at two new facilities in China;
- continuing effects from Hurricanes Katrina and Rita, and higher energy costs; and,
- ongoing development costs for the European precipitated calcium carbonate (PCC) coating program, primarily at a merchant facility in Germany.

Minerals Technologies has instituted programs to mitigate the negative impact of these factors. The company has implemented price increases and energy surcharges, and has also instituted a program to reduce expenses throughout the corporation.

The Refractories segment is experiencing a difficult third quarter because of the underlying weakness in the North American and European steel industries--this segment's largest markets--and higher raw material costs for the metallurgical product line. This weakness in the steel industry, and consequently in the Refractories segment, represents more than half of the company's expected shortfall in earnings per share.

The company's two new satellite PCC plants in China continued to experience start-up issues related to the complexities involved in scaling up a new PCC process technology. This new, innovative process for PCC production provides improved efficiency that, over time, will be utilized as a new process platform in a number of other PCC manufacturing facilities.

The recent hurricanes in the Gulf of Mexico have disrupted, and continue to disrupt, Minerals Technologies' operations and the operations of several of the company's customers. Associated higher energy costs are also having an adverse effect on both the Specialty Minerals and Refractories segments.

In addition, the European paper coating development program is progressing, but the ramp-up and commercial development costs for the program at the PCC merchant plant in Walsum, Germany, will continue into 2006.

"We are experiencing a weak third quarter, requiring us to reduce our full year estimate," said Paul R. Saueracker, chairman, president and chief executive officer. "We do, however, expect to see improvement in the fourth quarter. In fact, we are already seeing improvement in reported U.S. weekly steel production. The issues in China are largely behind us and we expect these plants to improve in the fourth quarter. The European coating program has taken longer than anticipated to ramp up, although we are

seeing increased demand for our unique coating material produced there. We remain confident that this program will be a major contributor to the profitability of the company."

Minerals Technologies Inc. is a global resource- and technology-based growth company that develops, produces and markets the highest quality performance-enhancing minerals and related products, systems and services. MTI serves the paper, steel, polymer and other manufacturing industries. The company reported sales of \$923.7 million in 2004.

This press release contains some forward-looking statements, which describe or are based on the company's current expectations. Actual results may differ materially from these expectations. The company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events, or otherwise. Forward-looking statements in this document should be evaluated together with the many uncertainties that affect our businesses, particularly those mentioned in the cautionary statements of our 2004 Annual Report on Form 10-K and in our other reports filed with the Securities and Exchange Commission.

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