UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 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): October 10, 2007

Material Sciences Corporation

(EXACT NAME OF REGISTRANT AS SPECIFIED IN ITS CHARTER)

Delaware (State or other jurisdiction of incorporation) 01-8803 (Commission File Number)

2200 East Pratt Boulevard

95-2673173 (IRS Employer Identification No.)

Elk Grove Village, Illinois 60007

(Address of Principal Executive Offices, including Zip Code)

(847) 439-2210

(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
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act

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Item 2.02. Results of Operations and Financial Condition.

On October 10, 2007, Material Sciences Corporation (the Company) issued a press release reporting results of operations for the three and six months ended August 31, 2007. A copy of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information, including Exhibit 99.1, in this Item 2.02 is being furnished and shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that Section. The information in this Item 2.02 shall not be incorporated by reference into any filing under the Securities Act of 1933, except as shall otherwise be expressly set forth by specific reference in such filing.

Item 9.01. Financial Statements and Exhibits.

Exhibit No. Document

99.1 Press Release dated October 10, 2007

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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.

MATERIAL SCIENCES CORPORATION

By: /s/ James M. Froisland James M. Froisland Senior Vice President, Chief Financial Officer, Chief Information Officer and Corporate Secretary

Date: October 10, 2007