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): December 16, 2003

CABOT CORPORATION

(Exact name of registrant as specified in its charter)

DELAWARE (State or other jurisdiction of incorporation) 1-5667 (Commission File Number) 04-2271897 (IRS Employer Identification No.)

TWO SEAPORT LANE, SUITE 1300, BOSTON, MASSACHUSETTS 02210-2019 (Address of principal executive offices) (Zip Code)

(617) 345-0100 (Registrant's telephone number, including area code)

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Item 7. Financial Statements and Exhibits.

(c) Exhibits

99.1 — Press release issued by Cabot Corporation on December 16, 2003.

Item 12. Results of Operations and Financial Condition.

On December 16, 2003, Cabot Corporation issued a press release, dated December 16, 2003, to update its fourth quarter and fiscal year earnings release issued on October 22, 2003. A copy of the press release is furnished herewith as Exhibit 99.1 and is incorporated herein by reference.

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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.

CABOT CORPORATION

By: /s/ David J. Elliott

Name: David J. Elliott Title: Controller

Date: December 16, 2003

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Exhibit

<u>Number</u> <u>Title</u>

99.1 Press release issued by Cabot Corporation on December 16, 2003.

Contact: Dennis M. Fink Director, Investor Relations (617) 342-6244

FOR IMMEDIATE RELEASE

CABOT UPDATES FOURTH QUARTER EPS TO \$0.40 FROM \$0.35 AND FISCAL YEAR EPS TO \$1.14 FROM \$1.10

BOSTON, MA (December 16, 2003) – Cabot Corporation (CBT/NYSE) today announced that its earnings for the fourth quarter ended September 30, 2003, were \$28 million (\$0.40 per diluted common share) rather than \$25 million (\$0.35 per diluted common share) as previously reported. For the fiscal year ended September 30, 2003, the Company earned \$80 million (\$1.14 per diluted common share) compared with \$77 million (\$1.10 per diluted common share) as previously reported. The increase to earnings was the result of an adjustment for the foreign currency revaluation of a previously recorded tax liability and the recognition of a prepaid pension asset for a foreign pension plan. These adjustments do not impact segment operating profit before tax.

Cabot Corporation is a global specialty chemicals company headquartered in Boston, MA. Cabot's major products are carbon black, fumed silica, inkjet colorants, capacitor materials, and cesium formate drilling fluids.