UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

ANNUAL FILING

CABOT CORPORATION
(NAME OF ISSUER)
COMMON STOCK
(TITLE CLASS OF SECURITIES)
127055101
(CUSIP NUMBER)
12/31/99
(DATE OF EVENT WHICH REQUIRES FILING THIS STATEMENT)

CHECK THE APPROPRIATE BOX TO DESIGNATE THE RULE PURSUANT TO WHICH THIS SCHEDULE IS FILED:

(X)	RULE 13D-1(B
()	RULE 13D-1(C
()	RULE 13D-1(D

*THE REMAINDER OF THIS COVER PAGE SHALL BE FILLED OUT FOR A REPORTING PERSON'S INITIAL FILING ON THIS FORM WITH RESPECT TO THE SUBJECT CLASS OF SECURITIES, AND FOR ANY SUBSEQUENT AMENDMENT CONTAINING INFORMATION WHICH WOULD ALTER THE DISCLOSURES PROVIDED IN A PRIOR COVER PAGE.

THE INFORMATION REQUIRED IN THE REMAINDER OF THIS COVER PAGE SHALL NOT BE DEEMED TO BE "FILED" FOR THE PURPOSE OF SECTION 18 OF THE SECURITIES EXCHANGE ACT OF 1934 ("ACT") OR OTHERWISE SUBJECT TO THE LIABILITIES OF THAT SECTION OF THE ACT BUT SHALL BE SUBJECT TO ALL OTHER PROVISIONS OF THE ACT (HOWEVER, SEE THE NOTES).

CUSIP NO. 127055101 13G PAGE 2 OF 5 PAGES

1. NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF PERSON
STATE STREET BANK AND TRUST COMPANY, ACTING IN VARIOUS FIDUCIARY
CAPACITIES. 04-1867445

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP.*

NOT APPLICABLE A ___ B __

- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

BOSTON, MASSACHUSETTS

- 5. SOLE VOTING POWER 483,693 SHARES
- 6. SHARED VOTING POWER 9,182,442 SHARES (INCLUDES 64,628 CONV.PFD SHARES. 1 PFD = 87.47 COM).
- 7. SOLE DISPOSITIVE POWER 7,619,574 SHARES (INCLUDES 64,628 CONV.PFD SHARES. 1 PFD =

87.47 COM).

3. SHARED DISPOSITIVE POWER
2,051,961 SHARES

9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
9,671,535 SHARES (INCLUDES 64,628 CONV.PFD SHARES. 1 PFD =
87.47 COM).

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

NOT APPLICABLE

- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 13.31%
- 12. TYPE OF REPORTING PERSON*

SCHEDULE 13G

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ITEM 1.

(A) NAME OF ISSUER

CABOT CORPORATION

(B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

75 STATE STREET BOSTON, MA 02109

ITEM 2.

(A) NAME OF PERSON FILING

STATE STREET BANK AND TRUST COMPANY (A WHOLLY OWNED

SUBSIDIARY

OF STATE STREET BOSTON CORPORATION)

(B) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE

225 FRANKLIN STREET, BOSTON, MA 02110

(C) CITIZENSHIP

BOSTON, MASSACHUSETTS

(D) TITLE CLASS OF SECURITIES

COMMON STOCK

(E) CUSIP NUMBER

127055101

- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A:
 - (B) _X_ BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT

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ITEM 4. OWNERSHIP

(A) AMOUNT BENEFICIALLY OWNED

9,671,535 SHARES

(B) PERCENT OF CLASS

13.31%

- (C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:
 - (I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE 483,693 SHARES
 - (II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE 9,182,442 SHARES
 - (III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF 7,619,574 SHARES

(IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF 2,051,961 SHARES

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

NOT APPLICABLE

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

CABOT RETIREMENT INCENTIVE SAVINGS PLAN = 10.2%

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY

NOT APPLICABLE

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

NOT APPLICABLE

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

NOT APPLICABLE

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ITEM 10. CERTIFICATION

THE FOLLOWING CERTIFICATION SHALL BE INCLUDED IF THE STATEMENT IS FILED PURSUANT TO RULE 13D-1(B):

BY SIGNING BELOW I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE SECURITIES REFERRED TO ABOVE WERE ACQUIRED IN THE ORDINARY COURSE OF BUSINESS AND WERE NOT ACQUIRED FOR THE PURPOSE OF AND DO NOT HAVE THE EFFECT OF CHANGING OR INFLUENCING THE CONTROL OF THE ISSUER OF SUCH SECURITIES AND WERE NOT ACQUIRED IN CONNECTION WITH OR AS A PARTICIPANT IN ANY TRANSACTION HAVING SUCH PURPOSES OR EFFECT.

THIS REPORT IS NOT AN ADMISSION THAT STATE STREET BANK AND TRUST COMPANY IS THE BENEFICIAL OWNER OF ANY SECURITIES COVERED BY THIS REPORT, AND STATE STREET BANK AND TRUST COMPANY EXPRESSLY DISCLAIMS BENEFICIAL OWNERSHIP OF ALL SHARES REPORTED HEREIN PURSUANT TO RULE 13D-4.

SIGNATURE

AFTER REASONABLE INQUIRY AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, I CERTIFY THAT THE INFORMATION SET FORTH IN THIS STATEMENT IS TRUE, COMPLETE AND CORRECT.

8 FEBRUARY 2000

STATE STREET BOSTON CORPORATION STATE STREET BANK AND TRUST COMPANY, TRUSTEE

/s/ JUDITH A. DORIAN VICE PRESIDENT