



2,108,713 SHARES

9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,108,713 SHARES

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

2.7%

12. TYPE OF REPORTING PERSON\*

BK

CUSIP NO. 127055101

13G

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1. NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO. OF PERSON

STATE STREET BANK AND TRUST COMPANY, TRUSTEE 04-1867445

CABOT CORPORATION EMPLOYEE STOCK OWNERSHIP PLAN

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

0 SHARES

6. SHARED VOTING POWER

6,067,444.02 SHARES (REPRESENTS 69,366 CONV PFD SHS CONVERTED TO  
COM [RATIO 1 PFD = 87.47 COM])

7. SOLE DISPOSITIVE POWER

0 SHARES

8. SHARED DISPOSITIVE POWER

6,067,444.02 SHARES (REPRESENTS 69,366 CONV PFD SHS CONVERTED TO  
COM [RATIO 1 PFD = 87.47 COM])

9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

6,067,444.02 SHARES (REPRESENTS 69,366 CONV PFD SHS CONVERTED TO  
COM [RATIO 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

8.0%

12. TYPE OF REPORTING PERSON\*

BK

1. NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF PERSON  
STATE STREET BANK AND TRUST COMPANY, TRUSTEE 04-1867445  
OR DISCRETIONARY ADVISOR VARIOUS COLLECTIVE INVESTMENT FUNDS FOR  
EMPLOYEE BENEFIT PLANS AND OTHER INDEX ACCOUNTS CABOT
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  
354,300 SHARES
6. SHARED VOTING POWER  
0 SHARES
7. SOLE DISPOSITIVE POWER  
369,200 SHARES
8. SHARED DISPOSITIVE POWER  
0 SHARES
9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
369,200 SHARES
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  
.5%
12. TYPE OF REPORTING PERSON\*  
BK

1. NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF PERSON  
STATE STREET BANK AND TRUST COMPANY, TRUSTEE/CO-TRUSTEE 04-1867445  
VARIOUS PERSONAL TRUST ACCOUNTS
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  
532,727 SHARES
6. SHARED VOTING POWER  
1,529,600 SHARES
7. SOLE DISPOSITIVE POWER  
76,573 SHARES
8. SHARED DISPOSITIVE POWER  
1,985,754 SHARES
9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
2,062,327 SHARES
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  
2.7%
12. TYPE OF REPORTING PERSON\*  
BK

## 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)  BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT

ITEM 4. OWNERSHIP

(A) AMOUNT BENEFICIALLY OWNED

10,607,684.02 SHARES

(B) PERCENT OF CLASS

13.9%

(C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:

(I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE  
887,027 SHARES

(II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE  
9,705,757.02 SHARES

(III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF  
445,773 SHARES

(IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF  
10,161,911.02 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.

NOT APPLICABLE

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

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.

10 FEBRUARY 1997

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

/s/ JANET DENNEEN  
SENIOR COMPLIANCE ADMINISTRATOR