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 (CONV PFD STK HELD IN ESOP PORTION) (CLASS OF SECURITIES) 127055101 (CUSIP NUMBER) 12/31/2006 (DATE OF EVENT WHICH REQUIRES FILING OF 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

- 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 998,551 SHARES 6. SHARED VOTING POWER 5,081,296 SHARES (INCLUDES 5,081,296 SHARES CNV PFD STK?VOTING RATIO 1 PFD = 146.3782 COMMON) SOLE DISPOSITIVE POWER 7. 0 SHARES 8. SHARED DISPOSITIVE POWER 6,079,847 SHARES (INCLUDES 5,081,296 SHARES CNV PFD STK-DISP RATIO-1 PFD =146.3782 COMMON SHS) 9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,079,847 SHARES (INCLUDES 5,081,296 SHARES CNV PFD STK-DISP RATIO-1 PFD =146.3782 COMMON SHS) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN 10. SHARES*

NOT APPLICABLE

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

8.8%

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ITEM 1. (A)	NAME OF ISSUER
	CABOT CORPORATION
(B)	ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
	TWO SEAPORT LANE SUITE 1300
BOSTON MA	02210
ITEM 2. (A) NAM	NE OF PERSON FILING
	STATE STREET BANK AND TRUST COMPANY, TRUSTEE
• •	DRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, SIDENCE
225	5 FRANKLIN STREET, BOSTON, MA 02110
(C) CII	TIZENSHIP
BOS	STON, MASSACHUSETTS
(D)	TITLE OF CLASS OF SECURITIES
	COMMON STOCK
(E) CUS	SIP 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
	SCHEDULE 13G PAGE 4 OF 5 PAGES
ITEM 4. OWNER (A)	RSHIP AMOUNT BENEFICIALLY OWNED
6,079,847 SHA	ARES
(B)	PERCENT OF CLASS
8.8%	
	NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS: (I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE OF
998,551 SHARE	(II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE OF
5,081,296 SH (III)SOLE POV 0 SHARES	HARES VER TO DISPOSE OR DIRECT THE DISPOSITION OF
6,079,847 SH	(IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF HARES
ITEM 5. OWN	RESHIP OF FIVE PERCENT OR LESS OF A CLASS
NOT	T APPLICABLE
	RERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER RSON.
	EMPLOYEE STOCK OWNERSHIP PLAN = 7.3%
	ITTETCATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH

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

NOT APPLICABLE

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

NOT APPLICABLE

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

NOT APPLICABLE

SCHEDULE 13G

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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.

13 FEBRUARY 2007

STATE STREET CORPORATION STATE STREET BANK AND TRUST COMPANY, TRUSTEE

> /s/ SYDNEY MARZEOTTI VICE PRESIDENT