

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

12/31/96

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934
(AMENDMENT NO. 1)*

DENTSPLY INTERNATIONAL INC.
(NAME OF ISSUER)
COMMON STOCK
(TITLE CLASS OF SECURITIES)
249030107
(CUSIP NUMBER)

CHECK THE FOLLOWING BOX IF A FEE IS BEING PAID WITH THIS STATEMENT. _____ (A FEE IS NOT REQUIRED ONLY IF THE FILING PERSON: (1) HAS A PREVIOUS STATEMENT ON FILE REPORTING BENEFICIAL OWNERSHIP OF MORE THAN FIVE PERCENT OF THE CLASS OF SECURITIES DESCRIBED IN ITEM 1; AND (2) HAS FILED NO AMENDMENT SUBSEQUENT THERETO REPORTING BENEFICIAL OWNERSHIP OF FIVE PERCENT OR LESS OF SUCH CLASS.) (SEE RULE 13D-7).

*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. 249030107 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, TRUSTEE 04-1867445
DENTSPLY INTERNATIONAL INC. 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

4,766,062 SHARES

7. SOLE DISPOSITIVE POWER

0 SHARES

8. SHARED DISPOSITIVE POWER

4,766,062 SHARES

9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

4,766,062 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

17.7%

12. TYPE OF REPORTING PERSON*

BK

CUSIP NO. 249030107

13G

PAGE 2A OF 5 PAGES

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 DENTSPLY

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

98,600 SHARES

6. SHARED VOTING POWER

0 SHARES

7. SOLE DISPOSITIVE POWER

101,800 SHARES

8. SHARED DISPOSITIVE POWER

0 SHARES

9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

101,800 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

.4%

12. TYPE OF REPORTING PERSON*

BK

CUSIP NO. 249030107 13G PAGE 2B OF 5 PAGES

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 TRUST ACCOUNTS DENTSPLY

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

2,000 SHARES

6. SHARED VOTING POWER

0 SHARES

7. SOLE DISPOSITIVE POWER

1,000 SHARES

8. SHARED DISPOSITIVE POWER

1,000 SHARES

9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,000 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

.0%

12. TYPE OF REPORTING PERSON*

BK

SCHEDULE 13G PAGE 3 OF 5 PAGES

ITEM 1.

(A) NAME OF ISSUER

DENTSPLY INTERNATIONAL INC.

(B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

570 WEST COLLEGE AVENUE
P.O. BOX 872
YORK, PA 17405-0872

ITEM 2.

(A) NAME OF PERSON FILING

STATE STREET BANK AND TRUST COMPANY, TRUSTEE

(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

249030107

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

PAGE 4 of 5 PAGES

ITEM 4. OWNERSHIP

(A) AMOUNT BENEFICIALLY OWNED

4,869,862 SHARES

(B) PERCENT OF CLASS

18.1%

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

(I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE

100,600 SHARES

(II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE

4,766,062 SHARES

(III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF

102,800 SHARES

(IV) SHA800 POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF

4,767,062 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

PAGE 5 OF 5 PAGES

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.

9 JUNE 1997

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

/s/ Janet Denneen
Senior Compliance Officer