



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

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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

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

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

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

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) SHARED 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

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