UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

SCHEDULE 13G Under the Securities Exchange Act of 1934 (Amendment No.)*

DENTSPLY SIRONA Inc.

(Name of Issuer)

Common Stock, par value \$.01 per share

(Title of Class of Securities)

24906P109

(CUSIP Number)

April 16, 2018

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

o Rule 13d-1(b)

☑ Rule 13d-1(c)

o 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 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).

_						
1	NAME OF REPORTING PERSONS					
	Generation Investment Management LLP					
	CHECK THE API	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP				
2	(a) o					
	(b) o SEC USE ONLY					
3	SEC USE OILLI					
4	CITIZENSHIP OR PLACE OF ORGANIZATION					
·	England and Wale	England and Wales				
		_	SOLE VOTING POWER			
	UMBER OF SHARES IEFICIALLY WNED BY EACH	5	90,449			
		_	SHARED VOTING POWER			
		6	11,711,857			
		CH RTING 7	SOLE DISPOSITIVE POWER			
	EPORTING PERSON		90,449			
	WITH		SHARED DISPOSITIVE POWER			
	A CODECATE AN	AOLINE D	11,711,857			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	11,802,306					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0					
10						
4.4	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
11	5.2%					
	TYPE OF REPORTING PERSON					
12						
	IA					

	NAME OF REPORTING PERSONS					
1	Generation Investment Management US LLP					
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP					
	(a) o					
	(b) o					
3	SEC USE ONLY					
	CITIZENSHIP OR PLACE OF ORGANIZATION					
4	Delaware					
<u> </u>			SOLE VOTING POWER			
	JMBER OF	5	0			
		6	SHARED VOTING POWER			
	HARES EFICIALLY					
	NED BY		5,542,686			
	EACH PORTING	7	SOLE DISPOSITIVE POWER			
	ERSON	,	0			
,	WITH		SHARED DISPOSITIVE POWER			
		8	5,542,686			
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
9						
	5,542,686					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	2.4%					
	TYPE OF REPORTING PERSON					
12	1112 01 1121 01					

	_					
1	NAME OF REPORTING PERSONS					
	Generation IM Fund plc					
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP					
2	(a) o (b) o					
	SEC USE ONLY					
3						
	CITIZENSHIP OR PLACE OF ORGANIZATION					
4						
	Ireland		COLE VOTING POWER			
		5	SOLE VOTING POWER			
NU	JMBER OF		0			
9	SHARES IEFICIALLY WNED BY	6	SHARED VOTING POWER			
		0	3,492,627			
	EACH EPORTING	G 7	SOLE DISPOSITIVE POWER			
	PERSON		0			
	WITH		SHARED DISPOSITIVE POWER			
		8	3,492,627			
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		ENEFICIALLY OWNED BY EACH REPORTING PERSON				
9	3,492,627					
	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0					
10						
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
11	1.5%					
	TYPE OF REPORTING PERSON					
12	CO					
12	TYPE OF REPORTING PERSON					
	CO					

1	NAME OF REPORTING PERSONS				
	Generation IM Global Equity Fund LLC				
_	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP				
2	(a) o (b) o				
	SEC USE ONLY				
3					
	CITIZENSHIP OR PLACE OF ORGANIZATION				
4					
	Delaware		COLE VOTING POWER		
		5	SOLE VOTING POWER		
NU	JMBER OF SHARES JEFICIALLY WNED BY		0		
S		6	SHARED VOTING POWER		
			2,905,596		
	EACH PORTING	7	SOLE DISPOSITIVE POWER		
P	PERSON		0		
	WITH		SHARED DISPOSITIVE POWER		
		8	2,905,596		
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		ENEFICIALLY OWNED BY EACH REPORTING PERSON			
9	2,905,596				
	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0				
10					
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
11	1.3%				
	TYPE OF REPORTING PERSON				
12	00				

Item 1. (a) Name of Issuer

DENTSPLY SIRONA Inc.

(b) Address of Issuer's Principal Executive Offices

221 West Philadelphia Street, York, PA 17401-2991

Item 2. (a) Name of Person Filing

Generation Investment Management LLP;

Generation Investment Management US LLP;

Generation IM Fund plc; and

Generation IM Global Equity Fund LLC.

(b) Address of Principal Business Office, or, if none, Residence

Generation Investment Management LLP: 20 Air Street, 7th floor, London, United Kingdom W1B 5AN.

Generation Investment Management US LLP: 555 Mission Street, Suite 3400, San Francisco, CA 94105.

Generation IM Fund plc: Georges Court, 54-62 Townsend Street, Dublin 2, Ireland

Generation IM Global Equity Fund LLC: 555 Mission Street, Suite 3400, San Francisco, CA 94105.

(c) Citizenship

Generation Investment Management LLP - England and Wales

Generation Investment Management US LLP - Delaware

Generation IM Fund plc - Ireland

Generation IM Global Equity Fund LLC - Delaware

(d) Title of Class of Securities

Common Stock, par value \$.01 per share

(e) CUSIP No.:

24906P109

CUSIP No. 24906P109	SCHEDULE 13G	Page 7 of 11 Page
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Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(a) ⊔	Broker or dealer registered under section 15 of the Act (15 U.S.C. /80);
(b) 🗆	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
(c) 🗆	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
(d) 🗆	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
(e) □	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
(f) 🗆	An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
(g) □	A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
(h) 🗆	A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
(i) 🗆	A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
(j) 🗆	A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
(k) □	A group, in accordance with $\S240.13d-1(b)(1)(ii)(K)$. If filing as a non-U.S. institution in accordance with $\S240.13d-1(b)(1)(ii)(J)$, please specify the type of institution:

Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned:

See the response(s) to Item 9 on the attached cover pages.

(b) Percent of class:

See the response(s) to Item 11 on the attached cover pages.

- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: See the response(s) to Item 5 on the attached cover pages.
 - (ii) Shared power to vote or to direct the vote: See the response(s) to Item 6 on the attached cover pages.
 - (iii) Sole power to dispose or to direct the disposition of: See the response(s) to Item 7 on the attached cover pages.
 - (iv) Shared power to dispose or to direct the disposition of: See the response(s) to Item 8 on the attached cover pages.

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the Reporting Person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following:

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 or Control Person

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

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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.

Dated: April 26, 2018

GENERATION INVESTMENT MANAGEMENT LLP

By: /s/ Alexander Marshall

Name: Alexander Marshall

Title: General Counsel & Chief Compliance Officer

GENERATION INVESTMENT MANAGEMENT US LLP

By: Generation Investment Management Services LLC

Its: Partner

By: /s/ Peter Harris

Name: Peter Harris

GENERATION IM FUND PLC

By: /s/ Peter Harris

Name: Peter Harris Title: Director

GENERATION IM GLOBAL EQUITY FUND LLC

By: /s/ Peter Harris

Name: Peter Harris

INDEX TO EXHIBITS

Exhibit No. Exhibit

99.1 Joint Filing Agreement

Exhibit 99.1

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to such statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing statements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments and for the completeness and accuracy of the information concerning him or it contained therein, but shall not be responsible for the completeness and accuracy of the information concerning the other entity or person, except to the extent that he or it knows or has reason to believe that such information is inaccurate.

Dated: April 26, 2018

GENERATION INVESTMENT MANAGEMENT LLP

By: /s/ Alexander Marshall

Name: Alexander Marshall

Title: General Counsel & Chief Compliance Officer

GENERATION INVESTMENT MANAGEMENT US LLP

By: Generation Investment Management Services LLC

Its: Partner

By: /s/ Peter Harris

Name: Peter Harris

GENERATION IM FUND PLC

By: /s/ Peter Harris

Name: Peter Harris Title: Director

GENERATION IM GLOBAL EQUITY FUND LLC

By: /s/ Peter Harris

Name: Peter Harris