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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

INNOVIVA, INC.	
(Name of Issuer)	
Common Stock, par value \$0.01 per share	
(Title of Class of Securities)	-
45781M101	
(CUSIP Number) December 31, 2019	_
(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).

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CUSI	P NO.	45781M	101			13G			Page	2 of	8	Pages
(1)			PORTING NTIFICAT			OVE PERS	ONS ((entities on	ly).			
	Rena	issance	Technol	ogies L	LC	26-0385	758					
(2)	CHECK (a) (b)	[_]	PROPRIAT	E BOX I	F A MEM	BER OF A	GROL	JP (SEE INST	RUCTI	ONS):		
(3)	SEC U	ISE ONLY										
(4)	CITIZE	NSHIP O	R PLACE	OF ORGAI	NIZATIO	N						
	Dela	ware										
							(5)	SOLE VOTING	POWER	२		
	NUMBER OF SHARES BENEFICIALLY OWNED							7,893,	697			
	BY EACH REPORTING PERSON WITH:					(6)	SHARED VOTI	NG POV	VER			
								0				
							(7)	SOLE DISPO	SITIV	E POW	ER	

7,893,697

(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EA	CH REPORTING PERSON				
	7,893,697					
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS)					
		[_]				
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT I	N ROW (9)				
	7.79 %					
(12)	TYPE OF REPORTING PERSON (SEE INSTRUCTION IA	S)				
	Page 2 of 8 pa					
	Page 3 of 8 pa	ges				
	IP NO. 45781M101 13G	Page 3 of 8 Pages				
(1)	NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERS					
	RENAISSANCE TECHNOLOGIES HOLDINGS CORPORA	TION 13-3127734				
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF (a) [_] (b) [_]					
(3)	SEC USE ONLY					
(4) (CITIZENSHIP OR PLACE OF ORGANIZATION					
	Delaware					
		(5) SOLE VOTING POWER				
	NUMBER OF SHARES BENEFICIALLY OWNED	7,893,697				
	BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER				
		0				
		(7) SOLE DISPOSITIVE POWER				
		7,893,697				
		(8) SHARED DISPOSITIVE POWER				
		Θ				
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EA	CH REPORTING PERSON				
	7,893,697					
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS) [_]	(9) EXCLUDES CERTAIN SHARES				
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT I	N ROW (9)				
<u>, -</u> /	7.79 %	· · /				
(12)	TYPE OF REPORTING PERSON (SEE INSTRUCTION HC	S)				
	Page 3 of 8 pa	iges				
=====						

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(a) Name of Issuer							
INNOVIVA, INC.							
<pre>(b) Address of Issuer's Princi</pre>	nal Executive Offices						
	Suite 400, Burlingame, CA 94010						
Item 2.	Suite 400, Buriingane, CA 94010						
(a) Name of Person Filing:							
	g filed by Renaissance Technologies LLC echnologies Holdings Corporation ("RTHC").						
(b) Address of Principal Busi	ness Office or, if none, Residence.						
The principal business ad	dress of the reporting persons is:						
800 Third Avenue New York, New Yor	k 10022						
(c) Citizenship.							
RTC is a Delaware limited RTHC is a Delaware corpora							
(d) Title of Class of Securit	ies.						
Common Stock, par value \$	0.01 per share						
(e) CUSIP Number.	(e) CUSIP Number.						
45781M101							
	Page 4 of 8 pages						
	======================================						
<pre>(b) [_] Bank as defined in sectio (c) [_] Insurance Company as defi</pre>	ed under section 15 of the Act. n 3(a)(6) of the Act. ned in section 3(a)(19) of the Act. ered under section 8 of the Investment						
(f) [_] Employee Benefit Plan or Sec. 240.13d-1(b)(1)(ii)(<pre>Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E). Employee Benefit Plan or Endowment Fund in accordance with</pre>						
	Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G). A savings associations as defined in Section 3(b) of the Federal						
(j) [_] Group, in accordance with	Sec.240.13d-1(b)(1)(ii)(J).						
Item 4. Ownership.							
(a) Amount beneficially owned.							
RTHC: 7,893,697 sh	ares ares, comprising the shares beneficially owned ecause of RTHC's majority ownership of RTC.						
(b) Percent of Class.							
RTC: 7.79 % RTHC: 7.79 %							
(c) Number of shares as to wh	ich the person bas:						
(i) sole nower to vote or							
(1) Sole power to vote of	to direct the vote:						
RTC: 7,893,697 RTHC: 7,893,697							

(ii) Shared power to vote or to direct the vote: Θ (iii) sole power to dispose or to direct the disposition of: 7,893,697 RTC: RTHC: 7,893,697 (iv) Shared power to dispose or to direct the disposition of: RTC: 0 RTHC: 0 Page 5 of 8 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 five percent of the class of securities, check the following: [_] Item 6. Ownership of More than Five Percent on Behalf of Another Person. Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report. 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 a Group. Not applicable Page 6 of 8 pages _____ Item 10. Certification By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

Date: February 13, 2020

Renaissance Technologies LLC

By: /s/ James S. Rowen Chief Operating Officer

By: /s/ James S. Rowen Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001).

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EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the shares of Common Stock, par value \$0.01 per share of INNOVIVA, INC.

Date: February 13, 2020

Renaissance Technologies LLC

By: /s/ James S. Rowen Chief Operating Officer

Renaissance Technologies Holdings Corporation

By: /s/ James S. Rowen Vice President

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