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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 3)*

Cutera, Inc.
(Name of Issuer)
common stock
(Title of Class of Securities)
232109108
(CUSIP Number) December 29, 2017

(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.	23210910	8		13G			Page	2 of	8	Pages
(1)			RTING PERS		BOVE PERSO	NS ((entities on	ly).			
	Rena	issance T	echnologie	s LLC	26-03857	58					
(2)	CHECK (a) (b)	[_]	OPRIATE BC	X IF A MEM	IBER OF A	GROI	JP (SEE INST	RUCTIO)NS):		
(3)	SEC U	SE ONLY									
(4)	CITIZE	NSHIP OR	PLACE OF C	RGANIZATIO)N						
	Dela	ware									
						(5)	SOLE VOTING	POWEF	2		
	NUMBER OF SHARES BENEFICIALLY OWNED						1,083,	600			
	BY EACH REPORTING PERSON WITH:					(6)	SHARED VOTI	NG POV	VER		
							0				
						(7)	SOLE DISPO	SITIVE	E POW	ER	

1,083,600

(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EA	ACH REPORTING PERSON					
	1,083,600						
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS)						
		[_]					
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT 1	N ROW (9)					
	7.82 %						
(12)	TYPE OF REPORTING PERSON (SEE INSTRUCTION IA						
=====	Page 2 of 8 pa						
	Page 3 of 8 pa	nges					
CUS	IP NO. 232109108 13G	Page 3 of 8 Pages					
<pre>(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).</pre>							
	RENAISSANCE TECHNOLOGIES HOLDINGS CORPORA	NTION 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	1,083,600					
	BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER					
		0					
		(7) SOLE DISPOSITIVE POWER					
		1,083,600					
		(8) SHARED DISPOSITIVE POWER					
		0					
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EA	ACH REPORTING PERSON					
	1,083,600						
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS) [_]	(9) EXCLUDES CERTAIN SHARES					
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT 1	:N ROW (9)					
()	7.82 %						
(12)	TYPE OF REPORTING PERSON (SEE INSTRUCTION HC	IS)					
	Page 3 of 8 pa	iges					
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CUSIP NO. 232109108 13G									
Item 1.									
(a) Name of Issuer									
Cutera, Inc.									
(b) Address of Issuer's Principal Executive Of) Address of Issuer's Principal Executive Offices.								
3240 Bayshore Blvd., Brisbane, California	94005								
Item 2.									
(a) Name of Person Filing:									
	This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and Renaissance Technologies Holdings Corporation ("RTHC").								
(b) Address of Principal Business Office or, if none, Residence.									
The principal business address of the reporting persons is:									
800 Third Avenue New York, New York 10022									
(c) Citizenship.									
RTC is a Delaware limited liability company RTHC is a Delaware corporation.	RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.								
(d) Title of Class of Securities.									
common stock									
(e) CUSIP Number.									
232109108									
Page 4 of	8 pages ====================================								
Item 3. If this statement is filed pursuant to Rul or (c),check whether the person filing is									
 (a) [_] Broker or dealer registered under section (b) [_] Bank as defined in section 3(a)(6) of the (c) [_] Insurance Company as defined in section 3 (d) [_] Investment Company registered under section Company Act. 	Act. (a)(19) of the Act. on 8 of the Investment								
<pre>(e) [x] Investment Adviser in accordance with Sec (f) [_] Employee Benefit Plan or Endowment Fund in Sec. 240.13d-1(b)(1)(ii)(F).</pre>	n accordance with								
<pre>(g) [_] Parent holding company, in accordance wit (h) [_] A savings associations as defined in Sect. Deposit Insurance Act.</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.									
	the shares beneficially owned majority ownership of RTC.								
(b) Percent of Class.									
RTC: 7.82 % RTHC: 7.82 %									
(c) Number of shares as to which the person h	as:								
(i) sole power to vote or to direct the v	ote:								
RTC: 1,083,600 RTHC: 1,083,600									

(ii) Shared power to vote or to direct the vote: Θ (iii) sole power to dispose or to direct the disposition of: RTC: 1,083,600 RTHC: 1,083,600 (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

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, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber Executive Vice President

By: /s/ Mark Silber 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 of Cutera, Inc.

Date: February 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

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