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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 4)*

| Cutera, | Inc. |
|---|---|
| (Name of Issue | r) |
| common stock | |
| (Title of Class of Sec | urities) |
| 2321091 | |
| (CUSIP Number) | r 31, 2018 |
| (Date of Event Which Requires F | iling of this Statement) |
| Check the appropriate box to designate the rule Schedule is filed: | pursuant to which this |
| [X] Rule 13d-1(b) | |
| [_] Rule 13d-1(c) | |
| [_] Rule 13d-1(d) | |
| *The remainder of this cover page shall be fill initial filing on this form with respect to th and for any subsequent amendment containing in the disclosures provided in a prior cover page | e subject class of securities, formation which would alter |
| The information required in the remainder of th deemed to be "filed" for the purpose of Section | 18 of the Securities Exchange |
| Act of 1934 ("Act") or otherwise subject to the of the Act but shall be subject to all other pr see the Notes). | |
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5.29 % (12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) Page 2 of 8 pages _______ Page 3 of 8 pages CUSIP NO. 232109108 13G (1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). RENAISSANCE TECHNOLOGIES HOLDINGS CORPORATION (2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH: (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 735,766 (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) (11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.29 % ______ (12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) Page 3 of 8 pages

735,766

(SEE INSTRUCTIONS)

(a) Name of Issuer

Cutera, Inc.

(b) 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, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

common stock

(e) CUSIP Number.

232109108

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Item 3. If this statement is filed pursuant to Rule 13d-1(b) or 13-d-2(b) or (c), check whether the person filing is a:

- (a) $[_]$ Broker or dealer registered under section 15 of the Act.
- (b) [_] Bank as defined in section 3(a)(6) of the Act.
- (c) [_] Insurance Company as defined in section 3(a)(19) of the Act.
- (d) [_] Investment Company registered under section 8 of the Investment Company Act.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E).
- (g) [_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) [_] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (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.
- (j) [_] Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

(a) Amount beneficially owned.

RTC: 735,766 shares

RTHC: 735,766 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 5.29 % RTHC: 5.29 %

- (c) Number of shares as to which the person has:
 - (i) sole power to vote or to direct the vote:

RTC: 665,600 RTHC: 665,600 (ii) Shared power to vote or to direct the vote:

(iii) sole power to dispose or to direct the disposition of:

RTC: 665,600 RTHC: 665,600

(iv) Shared power to dispose or to direct the disposition of:

RTC: 70,166 RTHC: 70,166

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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

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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 12, 2019

Renaissance Technologies LLC

By: /s/ Mark Silber Executive Vice President

Renaissance Technologies Holdings Corporation

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 12, 2019

Renaissance Technologies LLC

By: /s/ Mark Silber

Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

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