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

SCHEDULE 13G

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

/Nama a£	
(Name of	Issuer)
Common St	
(Title of Class	of Securities)
	61123108
(CUSIP Nu D	ecember 29, 2017
(Date of Event Which Requ	ires Filing of this Statement)
Check the appropriate box to designate th Schedule is filed:	e rule pursuant to which this
[X] Rule 13d-1(b)	
[_] Rule 13d-1(c)	
[_] Rule 13d-1(d)	
*The remainder of this cover page shall b initial filing on this form with respect and for any subsequent amendment contain the disclosures provided in a prior cove	to the subject class of securities, ing information which would alter
The information required in the remainder deemed to be "filed" for the purpose of S Act of 1934 ("Act") or otherwise subject of the Act but shall be subject to all ot see the Notes).	ection 18 of the Securities Exchange to the liabilities of that section
CUSIP NO. 761123108 1	3G Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS.	
I.R.S. IDENTIFICATION NOS. OF ABOV	E PERSONS (entities only).
I.R.S. IDENTIFICATION NOS. OF ABOV	6-0385758
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_]	6-0385758
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_]	6-0385758
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_] (3) SEC USE ONLY	6-0385758
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION	6-0385758
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION	6-0385758 R OF A GROUP (SEE INSTRUCTIONS):
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	6-0385758 R OF A GROUP (SEE INSTRUCTIONS): (5) SOLE VOTING POWER
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED	6-0385758 R OF A GROUP (SEE INSTRUCTIONS): (5) SOLE VOTING POWER
I.R.S. IDENTIFICATION NOS. OF ABOV Renaissance Technologies LLC 2 (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING	6-0385758 R OF A GROUP (SEE INSTRUCTIONS): (5) SOLE VOTING POWER

		0
(9) AGGREGATE AMOUNT BENEFICIA	ALLY OWNED BY EA	CH REPORTING PERSON
6)	
(10) CHECK BOX IF THE AGGREGATE (SEE INSTRUCTIONS)	E AMOUNT IN ROW	(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESEN	 NTED BY AMOUNT I	 N ROW (9)
6	0.00 %	
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTION	 S)
	Page 2 of 8 pa	
	Page 3 of 8 pa	
CUSIP NO. 761123108	13G	Page 3 of 8 F
(1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS	S.	ONS (ENTITIES ONLY).
RENAISSANCE TECHNOLOGIES F		
2) CHECK THE APPROPRIATE BOX (a) [_] (b) [_]	IF A MEMBER OF	A GROUP (SEE INSTRUCTIONS)
(3) SEC USE ONLY		
(4) CITIZENSHIP OR PLACE OF ORG	GANIZATION	
Delaware		
		(5) SOLE VOTING POWER
NUMBER OF SHARES		0
BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		(6) SHARED VOTING POWER
		0
		(7) SOLE DISPOSITIVE POWER
		0
		(8) SHARED DISPOSITIVE POWER
		0
9) AGGREGATE AMOUNT BENEFICIA	ALLY OWNED BY EA	CH REPORTING PERSON
6)	
[10) CHECK BOX IF THE AGGREGATE (SEE INSTRUCTIONS)		(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESEN		 N ROW (9)
).00 %	\(\frac{1}{2}\)
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTION	 6)
ŀ	IC	
	Dago 2 of 9 pa	200

(8) SHARED DISPOSITIVE POWER

CUSIP NO. 761123108 13G Page 4 of 8 Pages Item 1. (a) Name of Issuer RESHAPE LIFESCIENCES INC. (b) Address of Issuer's Principal Executive Offices. 2800 Patton Road, St. Paul, Minnesota 55113 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. 761123108 Page 4 of 8 pages 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. (p) [-] Bank as defined in section 3(a)(6) of the Act. (c) [_] Insurance Company as defined in section 3(a)(19) of the Act. Investment Company registered under section 8 of the Investment (d) [_] Company Act. Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E). (e) [x] Employee Benefit Plan or Endowment Fund in accordance with (f) [_] Sec. 240.13d-1(b)(1)(ii)(F). Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G). (g) [. A savings associations as defined in Section 3(b) of the Federal (h) [_] Deposit Insurance Act. A church plan that is excluded from the definition of an investment (i) [_] company under section 3(c)(14) of the Investment Company Act of 1940. Group, in accordance with Sec. 240.13d-1(b)(1)(ii)(J). Item 4. Ownership. (a) Amount beneficially owned. RTC: 0 shares, comprising the shares beneficially owned RTHC: 0 by RTHC, because of RTHC's majority ownership of RTC. (b) Percent of Class. 0.00 % RTC: RTHC: 0.00 % (c) Number of shares as to which the person has: (i) sole power to vote or to direct the vote: RTC: RTHC: 0

(ii) Shared power to vote or to direct the vote:

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

RTC: 0 RTHC: 0

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

RTC: 0 RTHC: 0

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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: [X]

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 13, 2018

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 RESHAPE LIFESCIENCES 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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