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

## SCHEDULE 13G

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

Catalys	st Biosciences, Inc.
(Name of Issue	er)
common stock, p	oar value \$0.001 per share
(Title of Class of Sec	curities)
1488802	
(CUSIP Number) Decembe	er 31, 2018
(Date of Event Which Requires F	Filing of this Statement)
Check the appropriate box to designate the rule Schedule is filed:	e 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 the and for any subsequent amendment containing in the disclosures provided in a prior cover page	ne subject class of securities, nformation which would alter
The information required in the remainder of the deemed to be "filed" for the purpose of Section Act of 1934 ("Act") or otherwise subject to the of the Act but shall be subject to all other prosee the Notes).	n 18 of the Securities Exchange e liabilities of that section
CUSIP NO. 14888D208 13G	Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS.	SONS (entities only).
Renaissance Technologies LLC 26-0385	5758
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A	
(b) [_]	
(b) [_] (3) SEC USE ONLY	
(b) [_] (3) SEC USE ONLY	
(b) [_] (3) SEC USE ONLY  (4) CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
(b) [_] (3) SEC USE ONLY  (4) CITIZENSHIP OR PLACE OF ORGANIZATION	
(b) [_]  (3) SEC USE ONLY  (4) CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  NUMBER OF SHARES BENEFICIALLY OWNED	
(b) [_] (3) SEC USE ONLY  (4) CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  NUMBER OF SHARES	(5) SOLE VOTING POWER
(b) [_]  (3) SEC USE ONLY  (4) CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING	(5) SOLE VOTING POWER  198,998
(b) [_]  (3) SEC USE ONLY  (4) CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING	(5) SOLE VOTING POWER  198,998  (6) SHARED VOTING POWER

	(8) SHARED DISPOSITIVE POWER
	0
(9) AGGREGATE AMOUNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON
198,9	98
(10) CHECK BOX IF THE AGGREGATE AMON (SEE INSTRUCTIONS)	UNT IN ROW (9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED	BY AMOUNT IN ROW (9)
1.67 9	• •
(12) TYPE OF REPORTING PERSON (SEE I	INSTRUCTIONS)
•	e 2 of 8 pages
	e 3 of 8 pages
CUSIP NO. 14888D208	13G Page 3 of 8 Pag
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF	ABOVE PERSONS (ENTITIES ONLY).
RENAISSANCE TECHNOLOGIES HOLDI	NGS CORPORATION 13-3127734
(2) CHECK THE APPROPRIATE BOX IF A  (a) [_]  (b) [_]	MEMBER OF A GROUP (SEE INSTRUCTIONS)
3) SEC USE ONLY	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(5) SOLE VOTING POWER
	198,998
	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	198,998
	(8) SHARED DISPOSITIVE POWER
	0
(9) AGGREGATE AMOUNT BENEFICIALLY	OWNED BY EACH REPORTING PERSON
198,9	98 
(10) CHECK BOX IF THE AGGREGATE AMON (SEE INSTRUCTIONS) [_]	UNT IN ROW (9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED	BY AMOUNT IN ROW (9)
1.67	• •
(12) TYPE OF REPORTING PERSON (SEE	
(12) TYPE OF REPORTING PERSON (SEE ) HC	INSTRUCTIONS

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Item 1.

(a) Name of Issuer

Catalyst Biosciences, Inc.

(b) Address of Issuer's Principal Executive Offices.

611 Gateway Blvd. Suite 710, South San Francisco, California 94080

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, par value \$0.001 per share

(e) CUSIP Number.

14888D208

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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: 198,998 shares

RTHC: 198,998 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 1.67 % RTHC: 1.67 %

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

RTC: 198,998 RTHC: 198,998 (ii) Shared power to vote or to direct the vote:

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

RTC: 198,998 RTHC: 198,998

(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 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, par value \$0.001 per share of Catalyst Biosciences, 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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