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

SCHEDULE 13G

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

	ly Corporation
(Name of Issu	er)
Common stock,	\$0.01 Par Value
(Title of Class of Se	curities)
73754Y	100
(CUSIP Number) Decemb	er 29, 2017
(Date of Event Which Requires	
Check the appropriate box to designate the rul 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 fil initial filing on this form with respect to t and for any subsequent amendment containing i the disclosures provided in a prior cover pag	he subject class of securities, nformation which would alter
The information required in the remainder of t deemed to be "filed" for the purpose of Sectio Act of 1934 ("Act") or otherwise subject to th of the Act but shall be subject to all other p see the Notes).	n 18 of the Securities Exchange e liabilities of that section
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CUSIP NO. 73754Y100 13G	Page 2 of 8 Page
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PER	
Renaissance Technologies LLC 26-038	5758
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF (a) [_] (b) [_]	A GROUP (SEE INSTRUCTIONS):
(3) SEC USE ONLY	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware	
Detaware	
NUMBER OF SHARES	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	
	(5) SOLE VOTING POWER
BENEFICIALLY OWNED BY EACH REPORTING	(5) SOLE VOTING POWER 1,974,600
BENEFICIALLY OWNED BY EACH REPORTING	(5) SOLE VOTING POWER 1,974,600 (6) SHARED VOTING POWER

	_	0
(9) AGGREGATE AMOUNT BENEFIC	IALLY OWNED BY EACH R	EPORTING PERSON
	1,974,600	
(10) CHECK BOX IF THE AGGREGA (SEE INSTRUCTIONS)	TE AMOUNT IN ROW (9)	EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRES	ENTED BY AMOUNT IN RO	W (9)
	7.96 %	
12) TYPE OF REPORTING PERSON IA	(SEE INSTRUCTIONS)	
	Page 2 of 8 pages	
	Page 3 of 8 pages	
CUSIP NO. 73754Y100	13G	Page 3 of 8 Page
(1) NAMES OF REPORTING PERSON I.R.S. IDENTIFICATION NO	NS.	(ENTITIES ONLY).
RENAISSANCE TECHNOLOGIES	HOLDINGS CORPORATION	13-3127734
(2) CHECK THE APPROPRIATE BOY (a) [_] (b) [_] (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF OR	X IF A MEMBER OF A GR	OUP (SEE INSTRUCTIONS)
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Item 1.

(a) Name of Issuer

Potbelly Corporation

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

111 N. Canal Street, Suite 850, Chicago, Illinois 60606

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, \$0.01 Par Value

(e) CUSIP Number.

73754Y100

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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: 1,974,600 shares

RTHC: 1,974,600 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 7.96 % RTHC: 7.96 %

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

RTC: 1,974,600 RTHC: 1,974,600

- (ii) Shared power to vote or to direct the vote:
- (iii) sole power to dispose or to direct the disposition of:

RTC: 1,974,600 RTHC: 1,974,600

(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: [_]

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, \$0.01 Par Value of Potbelly Corporation.

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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