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

## SCHEDULE 13G

Under the Securities Exchange Act of 1934

F	Potbelly Corporation			
(Name of	Issuer)			
Common stock, \$0.01 Par Value				
(Title of Class of Securities)				
	, 73754Y100			
	February 26, 2016			
	uires Filing of this Statement)			
Check the appropriate box to designate the Schedule is filed:	ne 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 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 deemed to be "filed" for the purpose of SACT of 1934 ("ACT") or otherwise subject of the ACT but shall be subject to all otherwise subject.	Section 18 of the Securities Exchange to the liabilities of that section			
see the Notes).				
CUSIP NO. 73754Y100				
· ====================================	L3G Page 2 of 8 Pages			
CUSIP NO. 73754Y100 1  (1) NAMES OF REPORTING PERSONS.	L3G Page 2 of 8 Pages			
CUSIP NO. 73754Y100 1  (1) NAMES OF REPORTING PERSONS.	Page 2 of 8 Pages /E PERSONS (entities only).			
CUSIP NO. 73754Y100 1  (1) NAMES OF REPORTING PERSONS.     I.R.S. IDENTIFICATION NOS. OF ABOV  Renaissance Technologies LLC 2  (2) CHECK THE APPROPRIATE BOX IF A MEMBE (a) [_]	Page 2 of 8 Pages /E PERSONS (entities only).			
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CUSIP NO. 73754Y100 1  (1) NAMES OF REPORTING PERSONS.         I.R.S. IDENTIFICATION NOS. OF ABOVE  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	Page 2 of 8 Pages  /E PERSONS (entities only).  26-0385758  ER OF A GROUP (SEE INSTRUCTIONS):  (5) SOLE VOTING POWER  1,986,011			
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(9)	(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2,002,900				
(10)	(10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)				
(11)	(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	7.95 %				
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  IA					
Page 2 of 8 pages					
====:	======================================	es			
CUS	IP NO. 73754Y100 13G		Page 3 of 8 Pages		
(1)	NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSO	NS (	ENTITIES ONLY).		
RENAISSANCE TECHNOLOGIES HOLDINGS CORPORATION 13-3127734					
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A  (a) [_]  (b) [_]	 GRO	UP (SEE INSTRUCTIONS)		
(3)	SEC USE ONLY				
	0				
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION				
	Delaware 	 (5)	SOLE VOTING DOWED		
	NUMBER OF SHARES	(3)	SOLE VOTING POWER		
	BENEFICIALLY OWNED BY EACH REPORTING		1,986,011		
	PERSON WITH:	(6)	SHARED VOTING POWER		
			0		
		(7)	SOLE DISPOSITIVE POWER		
			2,002,851		
		(8)	SHARED DISPOSITIVE POWER		
			49		
(9)	(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2,002,900				
(10)	(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)		
	7.95 %				
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) HC					
	Page 3 of 8 pages				

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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: 2,002,900 shares

RTHC: 2,002,900 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 7.95 % RTHC: 7.95 %

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

RTC: 1,986,011 RTHC: 1,986,011 (ii) Shared power to vote or to direct the vote:

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

RTC: 2,002,851 RTHC: 2,002,851

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

RTC: 49 RTHC: 49

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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 14, 2017

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

By: 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 14, 2017

Renaissance Technologies LLC

By: Mark Silber

Executive Vice President

Renaissance Technologies Holdings Corporation

By: Mark Silber Vice President

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