

Epizyme, Inc.
Form SC 13D/A
August 21, 2014

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

SCHEDULE 13D

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

Epizyme, Inc.

(Name of Issuer)

Common Stock, \$.0001 par value

(Title of Class of Securities)

29428V104

(CUSIP Number)

Louis S. Citron, Esq.
New Enterprise Associates

1954 Greenspring Drive, Suite 600
Timonium, MD 21093
(410) 842-4000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

August 14, 2014

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

*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 disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be “filed” for the purpose of Section 18 of the Securities Exchange Act of 1934 (“Act”) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 29428V104

13D

Page 2 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

New Enterprise Associates 13, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

WC

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

7 SOLE VOTING POWER

NUMBER OF
SHARES
BENEFICIALLY

0 shares

8 SHARED VOTING POWER

OWNED BY
EACH

5,149,740 shares

REPORTING
PERSON

9 SOLE DISPOSITIVE POWER

WITH

0 shares

10 SHARED DISPOSITIVE POWER

5,149,740 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,149,740 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.3%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

PN

CUSIP No. 29428V104

13D

Page 3 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

NEA Partners 13, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

7 SOLE VOTING POWER

NUMBER OF 12,900 shares

SHARES

BENEFICIALLY

OWNED BY

EACH

REPORTING

PERSON

WITH

8 SHARED VOTING POWER

5,149,740 shares

9 SOLE DISPOSITIVE POWER

12,900 shares

10 SHARED DISPOSITIVE POWER

5,149,740 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

PN

CUSIP No. 29428V104

13D

Page 4 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

NEA 13 GP, LTD

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

7 SOLE VOTING POWER

NUMBER OF SHARES 0 shares

BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

PERSON WITH 0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

OO

CUSIP No. 29428V104

13D

Page 5 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Michael James Barrett

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

0 shares

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 6 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Peter J. Barris

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF SHARES 0 shares

BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 7 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Forest Baskettt

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF SHARES 0 shares

BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

PERSON WITH 10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 8 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Ryan D. Drant

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF SHARES 0 shares

BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

PERSON WITH 0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 9 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Patrick J. Kerins

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF 0 shares

SHARES

BENEFICIALLY

OWNED BY

EACH

REPORTING

PERSON

WITH

8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 10 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Krishna S. Kolluri

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF 0 shares

SHARES

BENEFICIALLY

OWNED BY

EACH

REPORTING

PERSON

WITH

8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 11 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

David M. Mott

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF SHARES 0 shares

BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

PERSON WITH 0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 12 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Scott D. Sandell

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

0 shares

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 13 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Ravi Viswanathan

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF SHARES 0 shares

BENEFICIALLY OWNED BY EACH REPORTING PERSON 8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

WITH 0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 14 of 23 Pages

1 NAMES OF REPORTING PERSONS.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).

Harry R. Weller

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS (SEE INSTRUCTIONS)

AF

5 CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

United States citizen

7 SOLE VOTING POWER

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

0 shares

8 SHARED VOTING POWER

5,162,640 shares

9 SOLE DISPOSITIVE POWER

0 shares

10 SHARED DISPOSITIVE POWER

5,162,640 shares

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,162,640 shares

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

15.4%

14 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

CUSIP No. 29428V104

13D

Page 15 of 23 Pages

Schedule 13D

Item 1. Security and Issuer.

This Amendment No. 1 (“Amendment No. 1”) to Schedule 13D amends and supplements the statement on Schedule 13D originally filed on November 21, 2013, relating to common stock, \$.0001 par value (the “Common Stock”) of Epizyme, Inc. (the “Issuer”) having its principal executive office at 400 Technology Square, Cambridge, MA 02139.

Certain terms used but not defined in this Amendment No. 1 have the meanings assigned thereto in the Schedule 13D. Except as specifically provided herein, this Amendment No. 1 does not modify any of the information previously reported on the Schedule 13D.

Item 2. Identity and Background.

This statement is being filed by:

(a) New Enterprise Associates 13, L.P. (“NEA 13”);

(b) NEA Partners 13, L.P. (“NEA Partners 13”), which is the sole general partner of NEA 13; and NEA 13 GP, LTD (“NEA 13 LTD” and, together with NEA Partners 13, the “Control Entities”), which is the sole general partner of NEA Partners 13; and

(c) Michael James Barrett (“Barrett”), Peter J. Barris (“Barris”), Forest Baskett (“Baskett”), Ryan D. Drant (“Drant”), Patrick J. Kerins (“Kerins”), Krishna S. Kolluri (“Kolluri”), David M. Mott (“Mott”), Scott D. Sandell (“Sandell”), Ravi Viswanathan (“Viswanathan”) and Harry R. Weller (“Weller”) (together, the “Directors”). The Directors are the directors of NEA 13 LTD.

The persons named in this Item 2 are referred to individually herein as a “Reporting Person” and collectively as the “Reporting Persons.”

The address of the principal business office of NEA 13 and each Control Entity is New Enterprise Associates, 1954 Greenspring Drive, Suite 600, Timonium, MD 21093. The address of the principal business office of each of Barrett, Barris, Drant, Kerins, Mott and Weller is New Enterprise Associates, 5425 Wisconsin Avenue, Suite 800, Chevy Chase, MD 20815. The address of the principal business office of Baskett, Kolluri, Sandell and Viswanathan is New Enterprise Associates, 2855 Sand Hill Road, Menlo Park, California 94025.

The principal business of NEA 13 is to invest in and assist growth-oriented businesses located principally in the United States. The principal business of NEA Partners 13 is to act as the sole general partner of NEA 13. The principal business of NEA 13 LTD is to act as the sole general partner of NEA Partners 13. The principal business of each of the Directors is to manage the Control Entities, NEA 13 and a number of affiliated partnerships with similar businesses.

During the five years prior to the date hereof, none of the Reporting Persons has been convicted in a criminal proceeding or has been a party to a civil proceeding ending in a judgment, decree or final order enjoining future

violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

NEA 13 and NEA Partners 13 are exempt limited partnerships organized under the laws of the Cayman Islands. NEA 13 LTD is an exempted company organized under the laws of the Cayman Islands. Each of the Directors is a United States citizen.

CUSIP No. 29428V104

13D

Page 16 of 23 Pages

Item 4. Purpose of Transaction.

On August 14, 2014, NEA 13 engaged in a stock distribution of 1,290,000 shares of the Issuer's Common Stock to its partners for no consideration. NEA Partners 13 acquired 12,900 shares of the Issuer's Common Stock as a result of the NEA 13 distribution. Depending on market conditions, its continuing evaluation of the business and prospects of the Issuer and other factors, Growth Equity Opportunities II, LLC ("GEO"), NEA 13 and other Reporting Persons may dispose of or acquire additional shares of the Issuer.

Except as set forth above, none of the Reporting Persons has any present plans which relate to or would result in:

- (a) The acquisition by any person of additional securities of the Issuer, or the disposition of securities of the Issuer;
- (b) An extraordinary corporate transaction, such as a merger, reorganization or liquidation, involving the Issuer or any of its subsidiaries;
- (c) A sale or transfer of a material amount of assets of the Issuer or any of its subsidiaries;
- (d) Any change in the present board of directors or management of the Issuer, including any plans or proposals to change the number or term of directors or to fill any existing vacancies on the board;
- (e) Any material change in the present capitalization or dividend policy of the Issuer;
- (f) Any other material change in the Issuer's business or corporate structure;
- (g) Changes in the Issuer's charter, bylaws or instruments corresponding thereto or other actions which may impede the acquisition of control of the Issuer by any person;
- (h) Causing a class of securities of the Issuer to be delisted from a national securities exchange or to cease to be authorized to be quoted in an inter-dealer quotation system of a registered national securities association;
- (i) A class of equity securities of the Issuer becoming eligible for termination of registration pursuant to Section 12(g)(4) of the Securities Exchange Act of 1934; or
- (j) Any action similar to any of those enumerated above.

Item 5. Interest in Securities of the Issuer.

- (a) GEO is the record owner of 406,500 shares of Common Stock of the Issuer (the "GEO Shares"). As of August 14, 2014, after consummation of the transactions described in Item 5(c) below, NEA 13 is the record owner of 4,743,240 shares of Common Stock of the Issuer (the "NEA 13 Shares") and NEA Partners 13 is the record owner of 12,900 shares of Common Stock of the Issuer (the "NEA Partners 13 Shares" and, together with the GEO Shares and the NEA 13 Shares, the "Firm Shares"). As the sole member of GEO, NEA 13 may be deemed to own beneficially the GEO Shares. As the sole general partner of NEA 13, NEA Partners 13 may also be deemed to

own beneficially the GEO Shares and the NEA 13 Shares. As the sole general partner of NEA Partners 13, NEA 13 LTD may be deemed to own beneficially the Firm Shares. As members of NEA 13 LTD, each of the Directors also may be deemed to own beneficially the Firm Shares.

The percentage of outstanding Common Stock of the Issuer which may be deemed to be beneficially owned by such Reporting Person is set forth on Line 13 of such Reporting Person's cover sheet. Such percentage was calculated based upon 33,585,533 shares of Common Stock deemed to be outstanding as of August 8, 2014 in the Issuer's Form 10-Q filed with the Securities Exchange Commission on August 13, 2014. Each of the Reporting Persons disclaims beneficial ownership of the Firm Shares except to the extent of their pecuniary interest therein, if any.

(b) Regarding the number of shares as to which such person has:

(i) sole power to vote or to direct the vote: See line 7 of cover sheets

(ii) shared power to vote or to direct the vote: See line 8 of cover sheets

(iii) sole power to dispose or to direct the disposition: See line 9 of cover sheets.

(iv) shared power to dispose or to direct the disposition: See line 10 of cover sheets

(c) Except as set forth in Item 4 above, none of the Reporting Persons has effected any transaction in the Common Stock during the last 60 days.

(d) No other person is known to have the right to receive or the power to direct the receipt of dividends from, or any proceeds from the sale of, Shares beneficially owned by any of the Reporting Persons.

(e) Not applicable.

Item 7. Material to be Filed as Exhibits.

Exhibit 1 – Agreement regarding filing of joint Schedule 13D.

Exhibit 2 – Power of Attorney regarding filings under the Securities Exchange Act of 1934, as amended.

CUSIP No. 29428V104

13D

Page 18 of 23 Pages

SIGNATURE

After reasonable inquiry and to the best of its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

EXECUTED this 21st day of August 2014.

NEW ENTERPRISE ASSOCIATES 13, L.P.

By: NEA PARTNERS 13, L.P.
General Partner

By: NEA 13 GP, LTD
General Partner

By: *
Peter J. Barris
Director

NEA PARTNERS 13, L.P.

By: NEA 13 GP, LTD
General Partner

By: *
Peter J. Barris
Director

NEA 13 GP, LTD

By: *
Peter J. Barris
Director

*
Michael James Barrett

*
Peter J. Barris

*

Forest Baskett

*

Ryan D. Drant

CUSIP No. 29428V104

13D

Page 19 of 23 Pages

*

Patrick J. Kerins

*

Krishna S. Kolluri

*

David M. Mott

*

Scott D. Sandell

*

Ravi Viswanathan

*

Harry R. Weller

*/s/ Louis S. Citron
Louis S. Citron
As attorney-in-fact

This Schedule 13D was executed by Louis S. Citron on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached as Exhibit 2.

CUSIP No. 29428V104

13D

Page 20 of 23 Pages

EXHIBIT 1

AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13D need be filed with respect to the ownership by each of the undersigned of shares of stock of Epizyme, Inc.

EXECUTED this 21st day of August 2014.

NEW ENTERPRISE ASSOCIATES 13, L.P.

By: NEA PARTNERS 13, L.P.
General Partner

By: NEA 13 GP, LTD
General Partner

By: *
Peter J. Barris
Director

NEA PARTNERS 13, L.P.

By: NEA 13 GP, LTD
General Partner

By: *
Peter J. Barris
Director

NEA 13 GP, LTD

By: *
Peter J. Barris
Director

*
Michael James Barrett

*

Peter J. Barris

*

Forest Baskett

*

Ryan D. Drant

CUSIP No. 29428V104

13D

Page 21 of 23 Pages

*

Patrick J. Kerins

*

Krishna S. Kolluri

*

David M. Mott

*

Scott D. Sandell

*

Ravi Viswanathan

*

Harry R. Weller

*/s/ Louis S. Citron
Louis S. Citron
As attorney-in-fact

This Agreement relating to Schedule 13D was executed by Louis S. Citron on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached hereto as Exhibit 2.

CUSIP No. 29428V104

13D

Page 22 of 23 Pages

EXHIBIT 2

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Louis S. Citron, Timothy Schaller, Sasha Keough and Stephanie Brecher, and each of them, with full power to act without the others, his or her true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his or her capacity as a direct or indirect general partner, director, officer or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the Financial Industry Regulatory Authority, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he or she might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his or her substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 1st day of August, 2013.

/s/ M. James Barrett

M. James Barrett

/s/ Peter J. Barris
Peter J. Barris

/s/ Forest Baskett
Forest Baskett

/s/ Rohini Chakravarthy
Rohini Chakravarthy

/s/ Patrick Chung
Patrick Chung

/s/ Ryan Drant
Ryan Drant

/s/ Anthony A. Florence
Anthony A. Florence

/s/ Robert Garland
Robert Garland

/s/ Paul Hsiao
Paul Hsiao

/s/ Patrick J. Kerins
Patrick J. Kerins

CUSIP No. 29428V104

13D

Page 23 of 23 Pages

/s/ Suzanne King
Suzanne King

/s/ Krishna S. Kolluri
Krishna S. Kolluri

/s/ C. Richard Kramlich
C. Richard Kramlich

/s/ Edward Mathers
Edward Mathers

/s/ David M. Mott
David M. Mott

/s/ John M. Nehra
John M. Nehra

/s/ Charles W. Newhall III
Charles W. Newhall III

/s/ Jason R. Nunn
Jason R. Nunn

/s/ Jon Sakoda
Jon Sakoda

/s/ Scott D. Sandell

Scott D. Sandell

/s/ Peter W. Sonsini
Peter W. Sonsini

/s/ A. Brooke Seawell
A. Brooke Seawell

/s/ Ravi Viswanathan
Ravi Viswanathan

/s/ Paul E. Walker
Paul E. Walker

/s/ Harry Weller
Harry Weller

