

Epizyme, Inc.  
Form SC 13G/A  
February 05, 2015

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**WASHINGTON, D.C. 20549**

**SCHEDULE 13G**  
**UNDER THE SECURITIES EXCHANGE ACT OF 1934**  
**(Amendment No. 1)\***

**EpiZyme, Inc.**

**(Name of Issuer)**

**Common Stock**

**(Title of Class of Securities)**

**29428V104**

**(CUSIP Number)**

**December 31, 2014**

**(Date of Event Which Requires Filing of This Statement)**

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

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 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

1. Name of Reporting Persons

MPM BioVentures IV-QP, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Delaware

5. Sole Voting Power

Number of

Shares 1,951,645

6. Shared Voting Power

Beneficially

Owned by 0

Each 7. Sole Dispositive Power

Reporting

Person 1,951,645

8. Shared Dispositive Power

With:

0

9. Aggregate Amount Beneficially Owned by Each Reporting Person

1,951,645

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

5.7%

12. Type of Reporting Person (See Instructions)

PN

CUSIP No. 29428V104

1. Name of Reporting Persons

MPM BioVentures IV GmbH & Co. Beteiligungs KG

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Germany

5. Sole Voting Power

Number of

Shares 75,188

6. Shared Voting Power

Beneficially

Owned by 0

Each 7. Sole Dispositive Power

Reporting

Person 75,188

8. Shared Dispositive Power

With:

0

9. Aggregate Amount Beneficially Owned by Each Reporting Person

75,188

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

0.2%

12. Type of Reporting Person (See Instructions)

PN

CUSIP No. 29428V104

1. Name of Reporting Persons

MPM BioVentures IV Strategic Fund, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Delaware

5. Sole Voting Power

Number of

Shares 331,491

6. Shared Voting Power

Beneficially

Owned by 0

Each 7. Sole Dispositive Power

Reporting

Person 331,491

8. Shared Dispositive Power

With:

0

9. Aggregate Amount Beneficially Owned by Each Reporting Person

331,491

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

1.0%

12. Type of Reporting Person (See Instructions)

PN



CUSIP No. 29428V104

1. Name of Reporting Persons

MPM Asset Management Investors BV4 LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Delaware

5. Sole Voting Power

Number of

Shares 55,495

6. Shared Voting Power

Beneficially

Owned by 0

Each 7. Sole Dispositive Power

Reporting

Person 55,495

8. Shared Dispositive Power

With:

0

9. Aggregate Amount Beneficially Owned by Each Reporting Person

55,495

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

0.2%

12. Type of Reporting Person (See Instructions)

OO

CUSIP No. 29428V104

1. Name of Reporting Persons

MPM BioVentures IV GP LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Delaware

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,358,324\*

Each 7. Sole Dispositive Power

Reporting

Person 0

8. Shared Dispositive Power

With:

2,358,324\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,358,324\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

6.9%

12. Type of Reporting Person (See Instructions)

PN

\* The shares are held as follows: 1,951,645 by MPM BioVentures IV-QP, L.P. ( BV IV QP ), 75,188 by MPM BioVentures IV GmbH & Co. Beteiligungs KG ( BV KG ) and 331,491 by MPM BioVentures IV Strategic Fund, L.P. ( BV SF ). The Reporting Person is the direct general partner of BV IV QP, BV KG and BV SF.

CUSIP No. 29428V104

1. Name of Reporting Persons

MPM BioVentures IV LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Delaware

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,413,819\*

Each 7. Sole Dispositive Power

Reporting

Person 0

8. Shared Dispositive Power

With:

2,413,819\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,413,819\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

7.1%

12. Type of Reporting Person (See Instructions)

OO

\* The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by MPM Asset Management Investors BV4 LLC ( AM BV4 ). The Reporting Person is the indirect general partner of BV IV QP, BV KG and BV SF and the manager of AM BV4.

CUSIP No. 29428V104

1. Name of Reporting Persons

Luke Evin

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

United States

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,413,819\*

7. Sole Dispositive Power

Each

Reporting

Person 0

8. Shared Dispositive Power

With:

2,413,819\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,413,819\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

7.1%

12. Type of Reporting Person (See Instructions)

IN

\* The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. MPM BioVentures IV GP LLC ( MPM IV GP ) and MPM BioVentures IV LLC ( MPM IV LLC ) are the direct and indirect general partners of BV IV QP, BV KG and BV SF and MPM IV LLC is the manager of AM BV4. The Reporting Person is a member of MPM IV LLC.



CUSIP No. 29428V104

1. Name of Reporting Persons

Ansbert Gadicke

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

United States

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,413,819\*

Each 7. Sole Dispositive Power

Reporting

Person 0

8. Shared Dispositive Power

With:

2,413,819\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,413,819\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

7.1%

12. Type of Reporting Person (See Instructions)

IN

\* The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. MPM IV GP and MPM IV LLC are the direct and indirect general partners of BV IV QP, BV KG and BV SF and MPM IV LLC is the manager of AM BV4. The Reporting Person is a member of MPM IV LLC.

CUSIP No. 29428V104

1. Name of Reporting Persons

Vaughn M. Kailian

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

United States

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,413,819\*

7. Sole Dispositive Power

Each

Reporting

Person 0

8. Shared Dispositive Power

With:

2,413,819\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,413,819\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

7.1%

12. Type of Reporting Person (See Instructions)

IN

\* The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. MPM IV GP and MPM IV LLC are the direct and indirect general partners of BV IV QP, BV KG and BV SF and MPM IV LLC is the manager of AM BV4. The Reporting Person is a member of MPM IV LLC.

CUSIP No. 29428V104

1. Name of Reporting Persons

James Paul Scopa

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

United States

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,413,819\*

7. Sole Dispositive Power

Each

Reporting

Person 0

8. Shared Dispositive Power

With:

2,413,819\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,413,819\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

7.1%

12. Type of Reporting Person (See Instructions)

IN

\* The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. MPM IV GP and MPM IV LLC are the direct and indirect general partners of BV IV QP, BV KG and BV SF and MPM IV LLC is the manager of AM BV4. The Reporting Person is a member of MPM IV LLC.

CUSIP No. 29428V104

1. Name of Reporting Persons

Todd Foley

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

United States

5. Sole Voting Power

Number of

Shares 0

6. Shared Voting Power

Beneficially

Owned by 2,413,819\*

7. Sole Dispositive Power

Each

Reporting

Person 0

8. Shared Dispositive Power

With:

2,413,819\*

9. Aggregate Amount Beneficially Owned by Each Reporting Person

2,413,819\*

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

..

11. Percent of Class Represented by Amount in Row (9)

7.1%

12. Type of Reporting Person (See Instructions)

IN

\* The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. MPM IV GP and MPM IV LLC are the direct and indirect general partners of BV IV QP, BV KG and BV SF and MPM IV LLC is the manager of AM BV4. The Reporting Person is a member of MPM IV LLC.



**Item 1.**

(a) Name of Issuer

EpiZyme, Inc.

(b) Address of Issuer's Principal Executive Offices

400 Technology Square

Cambridge, Massachusetts 02139

**Item 2.**

(a) Name of Person Filing

MPM BioVentures IV-QP, L.P.

MPM BioVentures IV GmbH & Co. Beteiligungs KG

MPM Asset Management Investors BV4 LLC

MPM BioVentures IV GP LLC

MPM BioVentures IV LLC

MPM BioVentures IV Strategic Fund, L.P.

Luke Evin

Ansbert Gadicke

Vaughn M. Kailian

James Paul Scopa

Todd Foley

(b) Address of Principal Business Office or, if none, Residence  
c/o MPM Capital LLC

The John Hancock Tower

200 Clarendon Street, 54<sup>th</sup> Floor

Boston, MA 02116

(c) Citizenship

All entities were organized in Delaware except MPM BioVentures IV GmbH & Co. Beteiligungs KG, which was organized in Germany. The individuals are all United States citizens.

(d) Title of Class of Securities

Common Stock

(e) CUSIP Number

29428V104

**Item 3. If this statement is filed pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:**

Not applicable

**Item 4. Ownership**

## (a) Amount Beneficially Owned:

MPM BioVentures IV-QP, L.P.	1,951,645
MPM BioVentures IV GmbH & Co. Beteiligungs KG	75,188
MPM BioVentures IV Strategic Fund, L.P.	331,491
MPM Asset Management Investors BV4 LLC	55,495
MPM BioVentures IV GP LLC	2,358,324(1)
MPM BioVentures IV LLC	2,413,819(2)
Ansbert Gadicke	2,413,819(3)
Luke B. Evin	2,413,819(3)
Vaughn M. Kailian	2,413,819(3)
James Paul Scopa	2,413,819(3)
Todd Foley	2,413,819(3)

## Percent of Class:

MPM BioVentures IV-QP, L.P.	5.7%
MPM BioVentures IV GmbH & Co. Beteiligungs KG	0.2%
MPM BioVentures IV Strategic Fund, L.P.	1.0%
MPM Asset Management Investors BV4 LLC	0.2%
MPM BioVentures IV GP LLC	6.9%
MPM BioVentures IV LLC	7.1%
Ansbert Gadicke	7.1%
Luke B. Evin	7.1%
Vaughn M. Kailian	7.1%
James Paul Scopa	7.1%
Todd Foley	7.1%

## (b) Number of shares as to which the person has:

## (i) Sole power to vote or to direct the vote

MPM BioVentures IV-QP, L.P.	1,951,645
MPM BioVentures IV GmbH & Co. Beteiligungs KG	75,188
MPM BioVentures IV Strategic Fund, L.P.	331,491
MPM Asset Management Investors BV4 LLC	55,495
MPM BioVentures IV GP LLC	0
MPM BioVentures IV LLC	0
Ansbert Gadicke	0
Luke B. Evin	0
Vaughn M. Kailian	0
James Paul Scopa	0



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

MPM BioVentures IV-QP, L.P.	0
MPM BioVentures IV GmbH & Co. Beteiligungs KG	0
MPM BioVentures IV Strategic Fund, L.P.	0
MPM Asset Management Investors BV4 LLC	0
MPM BioVentures IV GP LLC	2,358,324(1)
MPM BioVentures IV LLC	2,413,819(2)
Ansbert Gadicke	2,413,819(3)
Luke B. Evnin	2,413,819(3)
Vaughn M. Kailian	2,413,819(3)
James Paul Scopa	2,413,819(3)
Todd Foley	2,413,819(3)

(iii) Sole power to dispose or to direct the disposition of

MPM BioVentures IV-QP, L.P.	1,951,645
MPM BioVentures IV GmbH & Co. Beteiligungs KG	75,188
MPM BioVentures IV Strategic Fund, L.P.	331,491
MPM Asset Management Investors BV4 LLC	55,495
MPM BioVentures IV GP LLC	0
MPM BioVentures IV LLC	0
Ansbert Gadicke	0
Luke Evnin	0
Vaughn M. Kailian	0
James Paul Scopa	0
Todd Foley	0

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

MPM BioVentures IV-QP, L.P.	0
MPM BioVentures IV GmbH & Co. Beteiligungs KG	0
MPM BioVentures IV Strategic Fund, L.P.	0
MPM Asset Management Investors BV4 LLC	0
MPM BioVentures IV GP LLC	2,358,324(1)
MPM BioVentures IV LLC	2,413,819(2)
Ansbert Gadicke	2,413,819(3)
Luke B. Evnin	2,413,819(3)
Vaughn M. Kailian	2,413,819(3)
James Paul Scopa	2,413,819(3)
Todd Foley	2,413,819(3)

(1) The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG and 331,491 by BV SF. The Reporting Person is the direct general partner of BV IV QP, BV KG and BV SF.

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- (2) The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. The Reporting Person is the indirect general partner of BV IV QP, BV KG and BV SF and the manager of AM BV4.
- (3) The shares are held as follows: 1,951,645 by BV IV QP, 75,188 by BV KG, 331,491 by BV SF and 55,495 by AM BV4. MPM IV GP and MPM IV LLC are the direct and indirect general partners of BV IV QP, BV KG and BV SF and MPM IV LLC is the manager of AM BV4. The Reporting Person is a member of MPM IV LLC.

**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**

Not Applicable

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.**

Not Applicable

**Item 8. Identification and Classification of Members of the Group**

Not Applicable

**Item 9. Notice of Dissolution of a Group**

Not Applicable

**Item 10. Certification**

Not Applicable

**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.

Dated: February 4, 2015

MPM BIOVENTURES IV-QP, L.P.

By: MPM BioVentures IV GP LLC,  
its General Partner

By: MPM BioVentures IV LLC,  
its Managing Member

By: /s/ Luke Evnin  
Name: Luke Evnin  
Title: Member

MPM ASSET MANAGEMENT INVESTORS BV4 LLC

By: MPM BioVentures IV LLC  
its Manager

By: /s/ Luke Evnin  
Name: Luke Evnin  
Title: Member

MPM BIOVENTURES IV GP LLC

By: MPM BioVentures IV LLC,  
its Managing Member

By: /s/ Luke Evnin  
Name: Luke Evnin

MPM BIOVENTURES IV GMBH & CO.  
BETEILIGUNGS KG

By: MPM BioVentures IV GP LLC,  
in its capacity as the Managing Limited Partner

By: MPM BioVentures IV LLC,  
its Managing Member

By: /s/ Luke Evnin  
Name: Luke Evnin  
Title: Member

MPM BIOVENTURES IV STRATEGIC FUND, L.P.

By: MPM BioVentures IV GP LLC,  
its General Partner

By: MPM BioVentures IV LLC,  
its Managing Member

By: /s/ Luke Evnin  
Name: Luke Evnin

Title: Member

MPM BIOVENTURES IV LLC

By: /s/ Luke Evnin  
Name: Luke Evnin

Title: Member



Title: Member

By: /s/ Luke Evnin  
Name: Luke Evnin

By: /s/ Ansbert Gadicke  
Name: Ansbert Gadicke

By: /s/ Vaughn M. Kailian  
Name: Vaughn M. Kailian

By: /s/ James Paul Scopa  
Name: James Paul Scopa

By: /s/ Todd Foley  
Name: Todd Foley

**EXHIBITS**

A: Joint Filing Agreement