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

SCHEDULE 13G

**UNDER THE SECURITIES EXCHANGE ACT OF 1934
(Amendment No. 1)***

Chiasma, Inc.
(Name of Issuer)

Common Stock
(Title of Class of Securities)

16706W 10 2
(CUSIP Number)

December 31, 2017
(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).

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) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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 5,216,482*
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 5,216,482*
	8.	Shared Dispositive Power 0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 5,216,482*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 20.4%	
12.	Type of Reporting Person (See Instructions) PN	

* Includes 1,196,908 shares of Common Stock issuable pursuant to warrants, which are exercisable within 60 days of the date of this filing.

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) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3.	SEC USE ONLY	
4.	Citizenship or Place of Organization Germany	
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 200,973*
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 200,973*
	8.	Shared Dispositive Power 0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 200,973*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 0.8%	
12.	Type of Reporting Person (See Instructions) PN	

* Includes 46,112 shares of Common Stock issuable pursuant to warrants, which are exercisable within 60 days of the date of this filing.

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) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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 148,332*
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 148,332*
	8.	Shared Dispositive Power 0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 148,332*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 0.6%	
12.	Type of Reporting Person (See Instructions) OO	

* Includes 34,033 shares of Common Stock issuable pursuant to warrants, which are exercisable within 60 days of the date of this filing.

1.	Name of Reporting Persons MPM Bio IV NVS Strategic Fund, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3.	SEC USE ONLY	
4.	Citizenship or Place of Organization Bermuda	
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 1,552,960*
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 1,552,960*
	8.	Shared Dispositive Power 0
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,552,960*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 6.3%	
12.	Type of Reporting Person (See Instructions) PN	

* Includes 105,398 shares of Common Stock issuable pursuant to warrants, which are exercisable within 60 days of the date of this filing.

1.	Name of Reporting Persons MPM BioVentures IV GP LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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 0
	6.	Shared Voting Power 6,970,415*
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 6,970,415*
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 6,970,415*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 27.1%	
12.	Type of Reporting Person (See Instructions) OO	

* Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by MPM BioVentures IV-QP, L.P. ("BV IV QP"), 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by MPM BioVentures IV GmbH & Co. Beteiligungs KG ("BV KG") and 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by MPM Bio IV NVS Strategic Fund, L.P. ("BV SF"). The warrants listed above are exercisable within 60 days of the date of this filing. The Reporting Person is the direct general partner of BV IV QP, BV KG and BV SF.

1.	Name of Reporting Persons MPM BioVentures IV LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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 0
	6.	Shared Voting Power 7,118,747*
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 7,118,747*
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 7,118,747*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 27.6%	
12.	Type of Reporting Person (See Instructions) OO	

* Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG, 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF and 114,299 shares of Common Stock and 34,033 shares of Common Stock issuable upon exercise of warrants held by MPM Asset Management Investors BV4 LLC (“AM BV4”). The warrants listed above are exercisable within 60 days of the date of this filing. The Reporting Person is the indirect general partner of BV IV QP, BV KG and BV SF and the manager of AM BV4.

1.	Name of Reporting Persons Luke Evnin	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3.	SEC USE ONLY	
4.	Citizenship or Place of Organization United States	
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 7,118,747*
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 7,118,747*
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 7,118,747*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 27.6%	
12.	Type of Reporting Person (See Instructions) IN	

* Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG, 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF and 114,299 shares of Common Stock and 34,033 shares of Common Stock issuable upon exercise of warrants held 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.

1.	Name of Reporting Persons Ansbert Gadicke	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3.	SEC USE ONLY	
4.	Citizenship or Place of Organization United States	
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 7,118,747*
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 7,118,747*
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 7,118,747*	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 27.6%	
12.	Type of Reporting Person (See Instructions) IN	

* Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG, 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF and 114,299 shares of Common Stock and 34,033 shares of Common Stock issuable upon exercise of warrants held 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.

1.	Name of Reporting Persons Todd Foley	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3.	SEC USE ONLY	
4.	Citizenship or Place of Organization United States	
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 10,000*
	6.	Shared Voting Power 7,118,747**
	7.	Sole Dispositive Power 10,000*
	8.	Shared Dispositive Power 7,118,747**
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 7,128,747* **	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11.	Percent of Class Represented by Amount in Row (9) 27.7%	
12.	Type of Reporting Person (See Instructions) IN	

* Includes 10,000 shares of Common Stock issuable pursuant to options which are exercisable within 60 days of December 31, 2017.

** Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG, 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF and 114,299 shares of Common Stock and 34,033 shares of Common Stock issuable upon exercise of warrants held 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
Chiasma, Inc.
- (b) Address of Issuer's Principal Executive Offices
460 Totten Pond Road, Suite 530
Waltham MA 02451

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 Bio IV NVS Strategic Fund, L.P.
MPM BioVentures IV GP LLC
MPM BioVentures IV LLC
Luke Evnin
Ansbert Gadicke
Todd Foley
- (b) Address of Principal Business Office or, if none, Residence
c/o MPM Capital LLC
450 Kendall Street
Cambridge, MA 02142
- (c) Citizenship
All entities were organized in Delaware except MPM BioVentures IV GmbH & Co. Beteiligungs KG, which was organized in Germany and MPM Bio IV NVS Strategic Fund, L.P., which was organized in Bermuda. The individuals are all United States citizens.
- (d) Title of Class of Securities
Common Stock
- (e) CUSIP Number
16706W 10 2

- 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

MPM Entity	Shares	Shares	Sole Voting Power	Shared Voting Power	Sole Dispositive Power	Shared Dispositive Power	Beneficial Ownership	Percentage of Class
	Held Directly	Issuable Upon Exercise of Warrants Held Directly						
BV IV QP	4,019,574	1,196,908	5,216,482	0	5,216,482	0	5,216,482	20.4%
BV KG	154,861	46,112	200,973	0	200,973	0	200,973	0.8%
BV SF	1,447,562	105,398	1,552,960	0	1,552,960	0	1,552,960	6.3%
AM BV4	114,299	34,033	148,332	0	148,332	0	148,332	0.6%
BV IV GP(1)	0	0	0	6,970,415	0	6,970,415	6,970,415	27.1%
BV IV LLC(2)	0	0	0	7,118,747	0	7,118,747	7,118,747	27.6%
Luke Evinin(3)	0	0	0	7,118,747	0	7,118,747	7,118,747	27.6%
Ansbert Gadicke(3)	0	0	0	7,118,747	0	7,118,747	7,118,747	27.6%
Todd Foley(3)(4)	10,000	0	10,000	7,118,747	0	7,118,747	7,128,747	27.7%

- (1) Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG and 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF. The warrants listed above are exercisable within 60 days of the date of this filing. The Reporting Person is the direct general partner of BV IV QP and BV KG.
- (2) Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG, 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF and 114,299 shares of Common Stock and 34,033 shares of Common Stock issuable upon exercise of warrants held by AM BV4. The warrants listed above are exercisable within 60 days of the date of this filing. The Reporting Person is the indirect general partner of BV IV QP and BV KG and the manager of AM BV4.
- (3) Consists of 4,019,574 shares of Common Stock and 1,196,908 shares of Common Stock issuable upon exercise of warrants held by BV IV QP, 154,861 shares of Common Stock and 46,112 shares of Common Stock issuable upon exercise of warrants held by BV KG, 1,447,562 shares of Common Stock and 105,398 shares of Common Stock issuable upon exercise of warrants held by BV SF and 114,299 shares of Common Stock and 34,033 shares of Common Stock issuable upon exercise of warrants held 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.
- (4) Includes 10,000 shares of Common Stock issuable pursuant to options which are exercisable within 60 days of December 31, 2017.

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: January 31, 2018

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
Title: Member

By: /s/ Luke Evnin
Name: Luke Evnin

By: /s/ Todd Foley
Name: Todd Foley

EXHIBITS

A: Joint Filing Agreement

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 BIO IV NVS 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

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke

EXHIBIT A

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of Chiasma, Inc. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

In evidence whereof, the undersigned have caused this Agreement to be executed on their behalf this 31st day of January, 2018.

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
Title: Member

By: /s/ Luke Evnin
Name: Luke Evnin

By: /s/ Todd Foley
Name: Todd Foley

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 BIO IV NVS 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

By: /s/ Ansbert Gadicke
Name: Ansbert Gadicke