UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

SCHEDULE 13D

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (Amendment No. 4)*

PHARMATHENE, INC.

(Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

> 42224H104 (CUSIP Number)

LUKE EVNIN MPM ASSET MANAGEMENT 450 KENDALL STREET CAMBRIDGE, MASSACHUSETTS 02142 TELEPHONE: (617) 425-9200 (Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

March 24, 2016

(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*).

	N .7	(D			
1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures III, L.P.				
2.			propriate Box if a Member of a Group (See Instructions)		
	(a) ⊔	(a) \Box (b) \boxtimes (1)			
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13.	Percent of Class Represented by Amount in Row (11)				
	0.0%				
14.	Type of	Repo	rting Person (See Instructions)		
	DNI				
	PN				

(1) This Schedule is filed by MPM BioVentures III, L.P. ("BV III"), MPM BioVentures III-QP, L.P. ("BV III QP "), MPM BioVentures III GmbH & Co. Beteiligungs KG ("BV III KG"), MPM BioVentures III Parallel Fund, L.P. ("BV III PF"), MPM BioVentures III GP, L.P. ("BV III GP"), MPM BioVentures III LLC ("BV III LLC") and MPM Asset Management Investors 2004 BVIII LLC ("AM LLC") (collectively, the "MPM Entities") and Luke Evnin, Ansbert Gadicke, Nicholas Galakatos, Dennis Henner, Nicholas Simon III, Michael Steinmetz and Kurt Wheeler (collectively, the "Listed Persons" and together with the MPM Entities, the "Reporting Persons"). The Reporting Persons expressly disclaim status as a "group" for purposes of this Schedule 13D/A.

1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures III-QP, L.P.				
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1 Nama -4					
1. Name of	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures III GmbH & Co. Beteiligungs KG				
2. Check the Appropriate Box if a Member of a Group (See Instructions)					
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures III Parallel Fund, L.P.				
2.	P. Check the Appropriate Box if a Member of a Group (See Instructions) (a) □ (b) ⊠ (1)				
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM Asset Management Investors 2004 BVIII LLC				
2.	2. Check the Appropriate Box if a Member of a Group (See Instructions)				
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MPM BioVentures III GP, L.P.				
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	MDM	Rio∖	Ventures III LLC		
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1.	. Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	Luke Evnin				
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	Ansbert Gadicke				
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	Nicholas Galakatos				
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1.	. Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	Dennis Henner				
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1.	. Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	Nicholas Simon III				
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1.	Name of	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)				
	Michael Steinmetz					
2.	 A. Check the Appropriate Box if a Member of a Group (See Instructions) (a) □ (b) ⊠ (1) 					
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1.	Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only)					
	Kurt Wheeler					
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This Amendment No. 4 to Schedule 13D (this "Amendment No. 4") amends and supplements the Schedule 13D originally filed with the United States Securities and Exchange Commission (the "SEC") on August 14, 2007, as amended by Amendment No. 1 to Schedule 13D originally filed with the SEC on August 4, 2009, Amendment No. 2 to Schedule 13D originally filed with the SEC on December 27, 2010 and Amendment No. 3 to Schedule 13D originally filed with the SEC on February 12, 2016 (as amended, the "Original Schedule 13D"). The persons filing this statement are MPM BioVentures III, L.P. ("BV III"), MPM BioVentures III-QP, L.P. ("BV III QP"), MPM BioVentures III GmbH & Co. Beteiligungs KG ("BV III KG"), MPM BioVentures III Parallel Fund, L.P. ("BV III PF"), MPM Asset Management Investors 2004 BVIII LLC ("AM LLC"), MPM BioVentures III GP, L.P. ("BV III GP"), MPM BioVentures III LLC ("BV III LLC") (collectively, the "MPM Entities") and Luke Evnin, Ansbert Gadicke, Nicholas Galakatos, Michael Steinmetz, Kurt Wheeler, Nicholas Simon III and Dennis Henner (collectively, the "Listed Persons" and together with the MPM Entities, the "Filing Persons"). The Original Schedule 13D, as amended by this Amendment No. 4 (the "Schedule 13D"), relates to the common stock, par value \$0.0001 per share (the "Common Stock"), of Pharmathene, Inc. (the "Issuer"). Capitalized terms used herein but not defined shall have the meanings ascribed to them in the Original Schedule 13D. This Amendment No. 4 amends the Original Schedule 13D as specifically set forth herein. Except as set forth below, all previous Items in the Original Schedule 13D remain unchanged.

Item 4. Purpose of Transaction

Item 4 of the Original Schedule 13D is hereby amended and supplemented by adding the following paragraph at the end of Item 4:

On March 1, 2016, BV III sold 30,539 shares, BV III QP sold 454,180 shares, BV III KG sold 38,382 shares, BV III PF sold 13,717 shares and AM LLC sold 10,796 shares of the Issuer's Common Stock in the open market for aggregate gross proceeds of \$903,563.

On March 24, 2016, BV III sold 167,310 shares, BV III QP sold 2,488,119 shares, BV III KG sold 210,270 shares, BV III PF sold 75,150 shares and AM LLC sold 59,151 shares of the Issuer's Common Stock in a private transaction for aggregate gross proceeds of \$4,950,000.

Item 5. Interest in Securities of the Issuer.

Item 5. Interest in Securities of the Issuer is hereby amended and restated in its entirety as follows:

(a) – (b) The following information with respect to the ownership of the Issuer's securities by the persons filing this Statement is provided as of the date of this filing:

MPM Entity	Shares Held <u>Directly</u>	Options Held Directly	Sole Voting Power	Shared Voting Power	Sole Dispositive Power	Shared Dispositive Power	Beneficial Ownership	Percentage of Class (1)
BV III	0	0	0	0	0	0	0	0.0%
BV III QP	0	0	0	0	0	0	0	0.0%
BV III KG	0	0	0	0	0	0	0	0.0%
BV III PF	0	0	0	0	0	0	0	0.0%
AM LLC	0	0	0	0	0	0	0	0.0%
BV III GP	0	0	0	0	0	0	0	0.0%

MPM Entity	Shares Held Directly	Options Held Directly	Sole Voting Power	Shared Voting Power	Sole Dispositive Power	Shared Dispositive Power	Beneficial Ownership	Percentage of Class (1)
BV III LLC	0	0	0	0	0	0	0	0.0%
Luke Evnin	0	0	0	0	0	0	0	0.0%
Ansbert Gadicke	0	0	0	0	0	0	0	0.0%
Nicholas Galakatos	0	0	0	0	0	0	0	0.0%
Michael Steinmetz	0	0	0	0	0	0	0	0.0%
Kurt Wheeler	0	0	0	0	0	0	0	0.0%
Nicholas Simon III	0	0	0	0	0	0	0	0.0%
Dennis Henner	0	0	0	0	0	0	0	0.0%

(c) On March 1, 2016, the Reporting Persons sold the following shares of Common Stock in the open market:

Date of Sale	Sold By	Shares Sold	Price P	er Share
3/1/16	BVV	30,539	\$	1.65
3/1/16	BV III QP	454,180	\$	1.65
3/1/16	BV III KG	38,382	\$	1.65
3/1/16	BV III PF	13,717	\$	1.65
3/1/16	AM LLC	10,796	\$	1.65

On March 23, 2016, the Reporting Persons sold the following shares of Common Stock in a private transaction:

Date of Sale	Sold By	Shares Sold	Price I	Per Share
3/24/16	BV V	167,310	\$	1.65
3/24/16	BV III QP	2,488,119	\$	1.65
3/24/16	BV III KG	210,270	\$	1.65
3/24/16	BV III PF	75,150	\$	1.65
3/24/16	AM LLC	59,151	\$	1.65

These are the only transactions by the Reporting Persons involving the Issuer's securities since the filing of Amendment No. 3 to the Schedule 13D on February 12, 2016.

(d) Inapplicable.

(e) On March 24, 2016, the Reporting Persons ceased to be beneficial owners of more than 5% of the issued and outstanding Common Stock of the Company. The reporting obligations of the Reporting Persons with respect to the Common Stock pursuant to Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder are therefore terminated.

Item 7. Material to be Filed as Exhibits.

Item 7 of the Original Schedule 13D is hereby supplemented by adding the following in appropriate numerical order:

<u>Exhibit No.</u>	Description
1.	Agreement regarding joint filing of Schedule 13D.

SIGNATURES

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: March 29, 2016

MPM BIOVENTURES III, L.P.

- By: MPM BioVentures III GP, L.P., its General Partner
- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin Name: Luke Evnin Title: Series A Member

MPM BIOVENTURES III PARALLEL FUND, L.P.

- By: MPM BioVentures III GP, L.P., its General Partner
- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin Name: Luke Evnin Title: Series A Member

MPM ASSET MANAGEMENT INVESTORS 2004 BVIII LLC

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

MPM BIOVENTURES III LLC

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

MPM BIOVENTURES III-QP, L.P.

- By: MPM BioVentures III GP, L.P., its General Partner
- By: MPM BioVentures III LLC, its General Partner

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

MPM BIOVENTURES III GMBH & CO. BETEILIGUNGS KG

By: MPM BioVentures III GP, L.P., in its capacity as the Managing Limited Partner

By: MPM BioVentures III LLC, its General Partner

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

MPM BIOVENTURES III GP, L.P.

By: MPM BioVentures III LLC, its General Partner

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

/s/ Luke Evnin

Luke Evnin

/s/ Ansbert Gadicke	/s/ Nicholas Galakatos	
Ansbert Gadicke	Nicholas Galakatos	
/s/ Michael Steinmetz	/s/ Kurt Wheeler	
Michael Steinmetz	Kurt Wheeler	

/s/ Nicholas Simon III

Nicholas Simon III

/s/ Dennis Henner Dennis Henner

SCHEDULE I

General Partners/Members:

Luke Evnin c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA

Ansbert Gadicke c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA

Nicholas Galakatos c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA

c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA

Kurt Wheeler c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA Nicholas Simon III c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA

c/o MPM Asset Management 450 Kendall Street Cambridge, Massachusetts 02142 Principal Occupation: Series A member of the general partner of the general partner of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG and manager of MPM Asset Management Investors 2004 BVIII LLC Citizenship: USA

Exhibit Index

<u>Exhibit No.</u>	Description
1.	Agreement regarding joint filing of Schedule 13D.

JOINT FILING STATEMENT

I, the undersigned, hereby express my agreement that the attached Amendment No. 4 to Schedule 13D (and any amendments thereto) relating to the common stock of Pharmathene, Inc. is filed on behalf of each of the undersigned.

Dated: March 29, 2016

MPM BIOVENTURES III, L.P.

- By: MPM BioVentures III GP, L.P., its General Partner
- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin Name: Luke Evnin Title: Series A Member

MPM BIOVENTURES III PARALLEL FUND, L.P.

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- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin Name: Luke Evnin Title: Series A Member

MPM ASSET MANAGEMENT INVESTORS 2004 BVIII LLC

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

MPM BIOVENTURES III LLC

By: /s/ Luke Evnin Name: Luke Evnin Title: Series A Member MPM BIOVENTURES III-QP, L.P.

- By: MPM BioVentures III GP, L.P., its General Partner
- By: MPM BioVentures III LLC, its General Partner

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

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- By: MPM BioVentures III GP, L.P., in its capacity as the Managing Limited Partner
- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin Name: Luke Evnin Title: Series A Member

MPM BIOVENTURES III GP, L.P.

By: MPM BioVentures III LLC, its General Partner

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

/s/ Luke Evnin

Luke Evnin

/s/ Ansbert Gadicke	/s/ Nicholas Galakatos
Ansbert Gadicke	Nicholas Galakatos
/s/ Michael Steinmetz	/s/ Kurt Wheeler
Michael Steinmetz	Kurt Wheeler
/s/ Nicholas Simon III	/s/ Dennis Henner
Nicholas Simon III	Dennis Henner

Attention. Intentional misstatements or omissions of fact constitute federal criminal violations (see 18 U.S.C. 1001).