Pharmasset Inc Form SC 13G February 12, 2008

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

### **SCHEDULE 13G**

# Under the Securities Exchange Act of 1934 (Amendment No. \_\_)\*

# PHARMASSET, INC. (Name of Issuer) Common Stock (Title of Class of Securities) 71715N 10 6 (CUSIP Number) December 31, 2007 (Date of Event Which Requires Filing of This Statement)

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

o Rule 13d-1(b)

o Rule 13d-1(c)

þ 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).

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) BB BioVentures, L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		1,897,071
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON	6.	SHARED VOTING POWER
		0
	7. 8.	SOLE DISPOSITIVE POWER
		1,897,071
WITH:		SHARED DISPOSITIVE POWER
		0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,897,071

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11.	8.9%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	PN
	Page 2 of 34

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures Parallel Fund, L.P.

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

### CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		255,744
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON	6.	SHARED VOTING POWER
		0
	7.	SOLE DISPOSITIVE POWER
		255,744
WITH:	8.	SHARED DISPOSITIVE POWER
		0

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

255,744

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11.	1.2%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	PN
	Page 3 of 34

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM Asset Management Investors 1999 LLC

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		22,623
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON	6.	SHARED VOTING POWER
		0
	7. 8.	SOLE DISPOSITIVE POWER
		22,623
WITH:		SHARED DISPOSITIVE POWER
		0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

22,623

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.1%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	00
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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures III-QP, L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		1,638,594
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER 1,638,594
WITH:	8.	SHARED DISPOSITIVE POWER

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,638,594

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11.	7.7%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	PN
	Page 5 of 34

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures III, L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		110,183
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON	6.	SHARED VOTING POWER
	0.	0
	7.	SOLE DISPOSITIVE POWER
		110,183
WITH:	8.	SHARED DISPOSITIVE POWER
		0

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9.

110,183

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11.	0.5%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	PN
	Page 6 of 34

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures III GmbH & Co. Beteiligungs KG

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Germany

	5.	SOLE VOTING POWER
NUMBER OF		138,475
SHARES	6.	SHARED VOTING POWER
BENEFICIALLY OWNED BY		0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		138,475
WITH:	8.	SHARED DISPOSITIVE POWER
	0.	0

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

138,475

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11.	0.7%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	PN
	Page 7 of 34

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM Asset Management Investors 2004 BVIII LLC

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		38,953
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
		0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		38,953
WITH:	8.	SHARED DISPOSITIVE POWER
		0

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

38,953

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.2%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	00
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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures III Parallel Fund, L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		49,489
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
		0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		49,489
WITH:	8.	SHARED DISPOSITIVE POWER
		0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

49,489

10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.2%
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	PN
	Page 9 of 34

#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures I, L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		255,744*
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
		0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		255,744*
WITH:	8.	SHARED DISPOSITIVE POWER
	0.	0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

255,744\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

0

# PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

10.

1.2%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

PN

\*The shares are held by MPM BioVentures Parallel Fund, L.P., of which the Reporting Person is its general partner.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures I LLC

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		2,152,815*
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
		0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		2,152,815*
WITH:	8.	SHARED DISPOSITIVE POWER
		0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,152,815\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

# PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

10.1%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

00

\* The shares are held as follows: 255,744 by MPM BioVentures Parallel Fund, L.P. ( MPM Parallel ) and 1,897,071 by BB BioVentures, L.P. ( BB BV ). The Reporting Person is the indirect general partner of MPM Parallel and BB BV.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) BAB BioVentures L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		1,897,071*
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
	0.	0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		1,897,071*
WITH:	8.	SHARED DISPOSITIVE POWER
		0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,897,071\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

0

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

10.

8.9%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

PN

\* The shares are held by BB BioVentures, L.P., of which the Reporting Person is the direct general partner.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) BAB BioVentures, N.V.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Cayman

	5.	SOLE VOTING POWER
NUMBER OF		1,897,071*
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
		0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		1,897,071*
WITH:	8.	SHARED DISPOSITIVE POWER
		0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,897,071\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

0

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

10.

8.9%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

PN

\* The shares are held by BB BioVentures, L.P., of which the Reporting Person is the indirect general partner.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures III GP, L.P.

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		1,936,741*
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
	0	0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		1,936,741*
WITH:	8.	SHARED DISPOSITIVE POWER
	0.	0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,936,741\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

# PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.1%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

PN

\* The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). The Reporting Person is the direct general partner of BV III, BV III QP, BV III PF and BV KG.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) MPM BioVentures III LLC

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

2.

- (a) o
  - (b) þ

SEC USE ONLY

3.

CITIZENSHIP OR PLACE OF ORGANIZATION

4.

Delaware

	5.	SOLE VOTING POWER
NUMBER OF		1,936,741*
SHARES BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
	0	0
EACH REPORTING PERSON	7.	SOLE DISPOSITIVE POWER
		1,936,741*
WITH:	8.	SHARED DISPOSITIVE POWER
	0.	0

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,936,741\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

# PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.1%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

00

\* The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). The Reporting Person is the indirect general partner of BV III, BV III QP, BV III PF and BV KG.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Ansbert Gadicke

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

### CITIZENSHIP OR PLACE OF ORGANIZATION

#### 4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY **6.** OWNED BY 4,151,132\*

5.

- EACH SOLE DISPOSITIVE POWER
- REPORTING 7.
- PERSON 0
  - WITH: SHARED DISPOSITIVE POWER

8.

4,151,132\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

4,151,132\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

#### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

19.5%

### TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

#### IN

\* The shares are held as follows: 1,897,071 by BB BioVentures, L.P. ( BB BV ), 255,744 by MPM BioVentures Parallel Fund, L.P. ( MPM Parallel ), 22,623 by MPM Asset Management Investors 1999 LLC ( AM 1999 ), 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures I, L.P. and MPM BioVentures I LLC ( BV I LLC ) are the direct and indirect general partners of MPM Parallel. BAB BioVentures L.P. ( BAB BV ), BAB BioVentures, N.V. and BV I LLC are the direct and indirect general partners of BB BV. The Reporting Person is a manager of AM 1999 and BV I LLC. MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Luke Evnin

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

### CITIZENSHIP OR PLACE OF ORGANIZATION

4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY **6.** OWNED BY 4,151,132\*

5.

- EACH SOLE DISPOSITIVE POWER REPORTING 7.
- REPORTING 7. PERSON 0
  - WITH: SHARED DISPOSITIVE POWER
    - 8.

4,151,132\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

4,151,132\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

#### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

19.5%

#### TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

#### IN

\* The shares are held as follows: 1,897,071 by BB BioVentures, L.P. ( BB BV ), 255,744 by MPM BioVentures Parallel Fund, L.P. ( MPM Parallel ), 22,623 by MPM Asset Management Investors 1999 LLC ( AM 1999 ), 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures I, L.P. and MPM BioVentures I LLC ( BV I LLC ) are the direct and indirect general partners of MPM Parallel. BAB BioVentures L.P. ( BAB BV ), BAB BioVentures, N.V. and BV I LLC are the direct and indirect general partners of BB BV. The Reporting Person is a manager of AM 1999 and BV I LLC. MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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#### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Michael Steinmetz

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

# CITIZENSHIP OR PLACE OF ORGANIZATION

#### 4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY 6. OWNED BY 4,151,132\*

5.

- EACH SOLE DISPOSITIVE POWER REPORTING 7.
- REPORTING 7. PERSON 0
  - WITH: SHARED DISPOSITIVE POWER

8.

4,151,132\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

4,151,132\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

#### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

19.5%

### TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

#### IN

\* The shares are held as follows: 1,897,071 by BB BioVentures, L.P. ( BB BV ), 255,744 by MPM BioVentures Parallel Fund, L.P. ( MPM Parallel ), 22,623 by MPM Asset Management Investors 1999 LLC ( AM 1999 ), 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures I, L.P. and MPM BioVentures I LLC ( BV I LLC ) are the direct and indirect general partners of MPM Parallel. BAB BioVentures L.P. ( BAB BV ), BAB BioVentures, N.V. and BV I LLC are the direct and indirect general partners of BB BV. The Reporting Person is a manager of AM 1999 and BV I LLC. MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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## CUSIP No. 71715N 10 6

### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Kurt Wheeler

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

### CITIZENSHIP OR PLACE OF ORGANIZATION

4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY **6.** OWNED BY 1,975,694\*

5.

- EACH SOLE DISPOSITIVE POWER
- REPORTING 7.

8.

- PERSON 0
  - WITH: SHARED DISPOSITIVE POWER

1,975,694\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

1,975,694\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.3%

### TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

IN

\* The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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## CUSIP No. 71715N 10 6

### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Nicholas Galakatos

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

# CITIZENSHIP OR PLACE OF ORGANIZATION

### 4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY 6.

5.

- OWNED BY 1,975,694\*
- EACH SOLE DISPOSITIVE POWER
- REPORTING 7. PERSON 0
  - WITH: SHARED DISPOSITIVE POWER
    - 8.

1,975,694\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

1,975,694\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.3%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

IN

\* The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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## CUSIP No. 71715N 10 6

### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Dennis Henner

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

### CITIZENSHIP OR PLACE OF ORGANIZATION

4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY **6.** OWNED BY 1,975,694\*

5.

- EACH SOLE DISPOSITIVE POWER **REPORTING** 7.
- REPORTING 7. PERSON 0
  - WITH: SHARED DISPOSITIVE POWER
    - 8.

1,975,694\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

1,975,694\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.3%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

IN

\* The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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## CUSIP No. 71715N 10 6

### NAME OF REPORTING PERSONS

1. I.R.S. Identification No(s). of above person(s) (entities only) Nicholas Simon III

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

2.

- (a) o
- (b) þ

SEC USE ONLY

3.

# CITIZENSHIP OR PLACE OF ORGANIZATION

### 4.

United States

# SOLE VOTING POWER

- NUMBER OF 0
- SHARES SHARED VOTING POWER
- BENEFICIALLY **6**. OWNED BY 1,975,694\*

5.

- EACH SOLE DISPOSITIVE POWER **REPORTING 7.**
- REPORTING 7. PERSON 0
  - WITH: SHARED DISPOSITIVE POWER
    - 8.

1,975,694\*

# AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9.

1,975,694\*

# CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10.

0

### PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.3%

# TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12.

IN

\* The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM BioVentures III, L.P. ( BV III ), 138,475 by MPM BioVentures III GmbH & Co. Beteiligungs KG ( BV KG ), 38,953 by MPM Asset Management Investors 2004 BVIII LLC ( AM BV III ) and 49,489 shares held by MPM BioVentures III Parallel Fund, L.P. ( BV III PF ). MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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# Item 1.

(a) Name of Issuer Pharmasset, Inc.

 (b) Address of Issuer s Principal Executive Offices 303-A College Road East Princeton, NJ 08540

# Item 2.

(a) Name of Person Filing **BB** BioVentures, LP MPM BioVentures Parallel Fund, LP MPM Asset Management Investors 1999 LLC MPM BioVentures III-QP, L.P MPM BioVentures III, L.P. MPM BioVentures III Parallel Fund, LP MPM Asset Management Investors 2004 BVIII LLC MPM BioVentures III GmbH & Co. Beteiligungs KG MPM BioVentures I, L.P. MPM BioVentures I LLC BAB BioVentures L.P. BAB BioVentures, N.V. MPM BioVentures III GP, L.P. MPM BioVentures III LLC Ansbert Gadicke Luke Evnin Nicholas Galakatos Michael Steinmetz Kurt Wheeler Nicholas Simon III **Dennis Henner** (b) Address of Principal Business Office or, if none, Residence c/o MPM Capital L.P. The John Hancock Tower 200 Clarendon Street, 54th Floor Boston, MA 02116 (c) Citizenship All entities were organized in Delaware, except MPM BioVentures III GmbH & Co Beteiligungs KG which was organized in Germany and BAB BioVentures, N.V which was organized in the Netherland Antilles. All individuals are United States citizens. (d) Title of Class of Securities Common Stock (e) CUSIP Number 71715N 106

# 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:

BB BioVentures, LP	1,897,071
MPM BioVentures Parallel Fund, LP	255,744
MPM Asset Management Investors 1999 LLC	22,623
MPM BioVentures III-QP, L.P	1,638,594
MPM BioVentures III, L.P.	110,183
MPM BioVentures III Parallel Fund, LP	49,489
MPM Asset Management Investors 2004 BVIII LLC	38,953
MPM BioVentures III GmbH & Co. Beteiligungs KG	138,475
MPM BioVentures I, L.P.	255,744(1)
MPM BioVentures I LLC	2,152,815(2)
BAB BioVentures L.P.	1,897,071(3)
BAB BioVentures, N.V.	1,897,071(4)
MPM BioVentures III GP, L.P.	1,936,741(5)
MPM BioVentures III LLC	1,936,741(6)
Ansbert Gadicke	4,151,132(7)
Luke Evnin	4,151,132(7)
Michael Steinmetz	4,151,132(7)
Kurt Wheeler	1,975,694(8)
Nicholas Galakatos	1,975,694(8)
Dennis Henner	1,975,694(8)
Nicholas Simon III	1,975,694(8)
(b) Percent of Class:	
BB BioVentures, LP	8.9%
MPM BioVentures Parallel Fund, LP	1.2%
MPM Asset Management Investors 1999 LLC	0.1%
MPM BioVentures III-QP, L.P	7.7%
MPM BioVentures III, L.P.	0.5%
MPM BioVentures III Parallel Fund, LP	0.2%
MPM Asset Management Investors 2004 BVIII LLC	0.2%
MPM BioVentures III GmbH & Co. Beteiligungs KG	0.7%
MPM BioVentures I, L.P.	1.2%
Page 24 of 34	

MPM BioVentures I LLC	10.1%		
BAB BioVentures L.P.	8.9%		
BAB BioVentures, N.V.	8.9%		
MPM BioVentures III GP, L.P.	9.1%		
MPM BioVentures III LLC	9.1%		
Ansbert Gadicke	19.5%		
Luke Evnin	19.5%		
Michael Steinmetz	19.5%		
Kurt Wheeler	9.3%		
Nicholas Galakatos	9.3%		
Dennis Henner	9.3%		
Nicholas Simon III	9.3%		
(c) Number of shares as to which the person has:			
(i) Sole power to vote or to direct the vote			
BB BioVentures, LP	1,897,071		
MPM BioVentures Parallel Fund, LP	255,744		
MPM Asset Management Investors 1999 LLC	22,623		
MPM BioVentures III-QP, L.P	1,638,594		
MPM BioVentures III, L.P.	110,183		
MPM BioVentures III Parallel Fund, LP	49,489		
MPM Asset Management Investors 2004 BVIII LLC	38,953		
MPM BioVentures III GmbH & Co. Beteiligungs KG	138,475		
MPM BioVentures I, L.P.	0		
MPM BioVentures I LLC	0		
BAB BioVentures L.P.	0		
BAB BioVentures, N.V.	0		
MPM BioVentures III GP, L.P.	0		
MPM BioVentures III LLC	0		
Ansbert Gadicke	0		
Luke Evnin	0		
Michael Steinmetz	0		
Kurt Wheeler	0		
Nicholas Galakatos	0		
Dennis Henner	0		
Nicholas Simon III	0		
Page 25 of 34			

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

	_
BB BioVentures, LP	0
MPM BioVentures Parallel Fund, LP	0
MPM Asset Management Investors 1999 LLC	0
MPM BioVentures III-QP, L.P	0
MPM BioVentures III, L.P.	0
MPM BioVentures III Parallel Fund, LP	0
MPM Asset Management Investors 2004 BVIII LLC	0
MPM BioVentures III GmbH & Co. Beteiligungs KG	0
MPM BioVentures I, L.P.	255,744(1)
MPM BioVentures I LLC	2,152,815(2)
BAB BioVentures L.P.	1,897,071(3)
BAB BioVentures, N.V.	1,897,071(4)
MPM BioVentures III GP, L.P.	1,936,741(5)
MPM BioVentures III LLC	1,936,741(6)
Ansbert Gadicke	4,151,132(7)
Luke Evnin	4,151,132(7)
Michael Steinmetz	4,151,132(7)
Kurt Wheeler	1,975,694(8)
Nicholas Galakatos	1,975,694(8)
Dennis Henner	1,975,694(8)
Nicholas Simon III	1,975,694(8)
(iii) Sole power to dispose or to direct the disposition of	······································
BB BioVentures, LP	1,897,071
MPM BioVentures Parallel Fund, LP	255,744
MPM Asset Management Investors 1999 LLC	22,623
MPM BioVentures III-QP, L.P	1,638,594
MPM BioVentures III, L.P.	110,183
MPM BioVentures III Parallel Fund, LP	49,489
MPM Asset Management Investors 2004 BVIII LLC	38,953
MPM BioVentures III GmbH & Co. Beteiligungs KG	138,475
MPM BioVentures I, L.P.	0
MPM BioVentures I LLC	0
BAB BioVentures L.P.	0
BAB BioVentures, N.V.	0
MPM BioVentures III GP, L.P.	0
MPM BioVentures III LLC	
	0
Ansbert Gadicke	0
Luke Evnin	0
Michael Steinmetz	0
Kurt Wheeler	0
Nicholas Galakatos	0
Dennis Henner	0
Nicholas Simon III	0
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(iv) Shared power to dispose or to direct the disposition of

BB BioVentures, LP	0
MPM BioVentures Parallel Fund, LP	0
MPM Asset Management Investors 1999 LLC	0
MPM BioVentures III-QP, L.P	0
MPM BioVentures III, L.P.	0
MPM BioVentures III Parallel Fund, LP	0
MPM Asset Management Investors 2004 BVIII LLC	0
MPM BioVentures III GmbH & Co. Beteiligungs KG	0
MPM BioVentures I, L.P.	255,744(1)
MPM BioVentures I LLC	2,152,815(2)
BAB BioVentures L.P.	1,897,071(3)
BAB BioVentures, N.V.	1,897,071(4)
MPM BioVentures III GP, L.P.	1,936,741(5)
MPM BioVentures III LLC	1,936,741(6)
Ansbert Gadicke	4,151,132(7)
Luke Evnin	4,151,132(7)
Michael Steinmetz	4,151,132(7)
Kurt Wheeler	1,975,694(8)
Nicholas Galakatos	1,975,694(8)
Dennis Henner	1,975,694(8)
Nicholas Simon III	1,975,694(8)
	1,975,094(8)
(1) The shares are	
held by MPM	
BioVentures	
Parallel Fund,	
L.P. (MPM	
Parallel ), of	
which the	
Reporting	
Person is its	
general partner.	
(2) The shares are	
(2) The shares are held as follows:	
255,744 by	
MPM Parallel	
and 1,897,071	
by BB BioVentures	
BioVentures,	
L.P. (BBBV).	
The Reporting	
Person is the	

indirect general partner of MPM Parallel and BB

BioVentures.

- (3) The shares are held by BB BV, of which the Reporting Person is the direct general partner. (4) The shares are held by BB BV, of which the Reporting Person is the indirect general partner. (5) The shares are held as follows: 1,638,594 by MPM BioVentures III-QP, L.P. ( BV III QP ), 110,183 by MPM **BioVentures III**, L.P. (BV III), 138,475 by MPM **BioVentures III** GmbH & Co. Beteiligungs KG ( BV KG ) and 49,489 shares held by MPM **BioVentures III** Parallel Fund, L.P. ( BV III PF). The Reporting Person is the direct general partner of BV III, BV III QP, BV III PF and BV KG.
- (6) The shares are held as follows:

1,638,594 by BV III QP, 110,183 by BV III, 138,475 by BV KG and 49,489 shares held by BV III PF. The Reporting Person is the indirect general partner of BV III, BV III QP, BV III PF and BV KG. (7) The shares are held as follows: 1,897,071 by BB BV, 255,744 by MPM Parallel, 22,623 by MPM Asset Management Investors 1999 LLC ( AM 1999 ), 1,638,594 by BV III QP, 110,183 by BV III, 138,475 by BV KG, 49,489 shares held by BV III PF and 38,953 shares held by MPM Asset Management Investors 2004 **BVIII LLC** ( AM BV III ). MPM **BioVentures I**, L.P. and MPM **BioVentures I** LLC ( BV I LLC ) are the direct and indirect general partners of

MPM Parallel. BAB **BioVentures** L.P. ( BAB BV ), BAB BioVentures, N.V. and BV I LLC are the direct and indirect general partners of BB BV. The Reporting Person is a manager of AM 1999 and BV I LLC. MPM **BioVentures III** GP, L.P. and MPM **BioVentures III** LLC ( BV III LLC ) are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

(8) The shares are held as follows:
1,638,594 by
BV III QP,
110,183 by BV

III, 138,475 by BV KG, 49,489 shares held by BV III PF and 38,953 shares held by AM BV III. MPM **BioVentures III** GP, L.P. and BV III LLC are the direct and indirect general partners of BV III QP, BV III, BV KG and BV III PF. The Reporting Person is a member of BV III LLC and AM BV III. The Reporting Person disclaims beneficial ownership of all such shares except to the extent of his proportionate pecuniary interests therein.

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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 o.

- 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

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### 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 11, 2008

BB BIOVENTURES, L.P.

- By: BAB BioVentures L.P., its General Partner
- By: BAB BioVentures N.V., its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

MPM ASSET MANAGEMENT INVESTORS 1999 LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

# 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 B. Evnin Title: Series A Member MPM BIOVENTURES PARALLEL FUND, L.P.

By: MPM BioVentures I, LP, its General Partner

- By: MPM BioVentures I LLC, its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

# 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 B. 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 B. Evnin Title: Series A Member Page 29 of 34

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 B. Evnin Title: Series A Member

## MPM BIOVENTURES I, L.P.

- By: MPM BioVentures I LLC, its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### BAB BIOVENTURES, L.P.

- By: BAB BioVentures, N.V. its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### MPM BIOVENTURES III GP, L.P.

- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Series A Member

By: /s/ Anbert Gadicke

# MPM ASSET MANAGEMENT INVESTORS 2004 BVIII LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### MPM BIOVENTURES I LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### BAB BIOVENTURES, N.V.

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### MPM BIOVENTURES III LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Series A Member

#### By: /s/ Luke Evnin

	Name: Ansbert Gadicke		Name: Luke B. Evnin
By:	/s/ Michael Steinmetz	By:	/s/ Kurt Wheeler
	Name: Michael Steinmetz	Page 30 of 34	Name: Kurt Wheeler

By: /s/ Nicholas Galakatos	By: /s/ Dennis Henner
Name: Nicholas Galakatos	Name: Dennis Henner
By: /s/ Nicholas Simon III	
Name: Nicholas Simon III EXHIBITS A: Joint Filing Agreement	
	Page 31 of 34

# 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 Pharmasset, 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 11<sup>th</sup> day of February, 2008.

BB BIOVENTURES, L.P.

- By: BAB BioVentures L.P., its General Partner
- By: BAB BioVentures N.V., its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

MPM ASSET MANAGEMENT INVESTORS 1999 LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

# MPM BIOVENTURES III, L.P.

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

MPM BIOVENTURES PARALLEL FUND, L.P.

- By: MPM BioVentures I, LP, its General Partner
- By: MPM BioVentures I LLC, its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

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 B. 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

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Series A Member

Name: Luke B. Evnin Title: Series A Member

Page 32 of 34

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 B. Evnin Title: Series A Member

## MPM BIOVENTURES I, L.P.

- By: MPM BioVentures I LLC, its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### BAB BIOVENTURES, L.P.

- By: BAB BioVentures, N.V. its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### MPM BIOVENTURES III GP, L.P.

- By: MPM BioVentures III LLC, its General Partner
- By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Series A Member

By: /s/ Anbert Gadicke

# MPM ASSET MANAGEMENT INVESTORS 2004 BVIII LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### MPM BIOVENTURES I LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### BAB BIOVENTURES, N.V.

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Manager

### MPM BIOVENTURES III LLC

By: /s/ Luke Evnin

Name: Luke B. Evnin Title: Series A Member

#### By: /s/ Luke Evnin

 Name: Ansbert Gadicke
 Name: Luke B. Evnin

 By: /s/ Michael Steinmetz
 By: /s/ Kurt Wheeler

 Name: Michael Steinmetz
 Name: Kurt Wheeler

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 Name: Kurt Wheeler

By: /s/ Nicholas Galakatos

By: /s/ Dennis Henner

Name: Nicholas Galakatos

Name: Dennis Henner

By: /s/ Nicholas Simon III

Name: Nicholas Simon III

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