UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHEDULE 13D

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (Amendment No. 2)*

Pacira Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock (Title of Class of Securities)

> 695127 10 0 (CUSIP Number)

Luke B. Evnin MPM Asset Management The John Hancock Tower 200 Clarendon Street, 54th Floor Boston, MA 02116

Telephone: (617) 425-9200

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

March 11, 2013

(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).

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	MPM	BioV	Ventures IV-QP, L.P.						
2.	Check t	Check the Appropriate Box if a Member of a Group (See Instructions)							
	(a) 🗆	(b	b) ⊠(1)						
3.	SEC U	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	NI C								
5.	WC Chaols i	f Dias	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
3.	Check i	I DISC	stosule of Legal Proceedings is Required Pulsuant to Items 2(d) of 2(e)						
6.	Citizens	ship o	r Place of Organization						
	Delaw	are							
		7.	Sole Voting Power						
Numb	er of		1,283,584(2)						
Sha	res	8.							
Benefi Owne									
Eac		9.	0 Sole Dispositive Power						
Repor		9.	Sole Dispositive Power						
Pers Wit			1,283,584(2)						
** =-		10.	Shared Dispositive Power						
			0						
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	1,283,584(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent	of Cla	ass Represented by Amount in Row (11)						
	3.9%(3)							
14.	Type of	Repo	orting Person (See Instructions)						
	DNI								

- (1) MPM BioVentures IV-QP, L.P. ("BV IV QP"), MPM BioVentures IV GmbH & Co. Beteiligungs KG ("BV IV KG"), MPM Asset Management Investors BV4 LLC ("AM LLC"), MPM BioVentures IV GP LLC ("BV IV GP"), MPM BioVentures IV LLC ("BV IV LLC") (collectively, the "MPM Entities") and Ansbert Gadicke, Luke Evnin, Todd Foley, James Paul Scopa, Vaughn Kailian and John Vander Vort (collectively, the "Listed Persons" and together with the MPM Entities, the "Filing Persons"). The Listed Persons are members of BV IV LLC. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 74,073 shares of Common Stock underlying warrants which are exercisable within 60 days of the date of this filing.
- (3) This percentage is calculated based upon 32,656,356 shares of Pacira Pharmaceuticals, Inc.'s (the "Issuer's") common stock, par value \$0.001 per share (the "Common Stock") outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	MPM :	BioV	Ventures IV GmbH & Co. Beteiligungs KG						
2.		Check the Appropriate Box if a Member of a Group (See Instructions)							
	(a) 🗆	(b	b) ⊠(1)						
3.	SEC US	SE O	NLY						
4.	Source	of Fir	nds (See Instructions)						
		J1 1 6,1	las (see instructions)						
	WC								
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	Germa	any							
		7.	Sole Voting Power						
Numb	of	ı	40.452(2)						
Numb		8.	49,453(2) Shared Voting Power						
Benefic	cially	6.	Shared voting rower						
Owne			0						
Eac Repor		9.	Sole Dispositive Power						
Pers	son	ı	49,453(2)						
Wit	th:	10.	Shared Dispositive Power						
		1							
1	لـــــا	لب							
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	49,453(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent	of Cl	ass Represented by Amount in Row (11)						
15.			ass represented by runount in row (11)						
	0.2%(3	/							
14.	Type of	Repo	orting Person (See Instructions)						
	DNI								

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 2,853 shares of Common Stock underlying warrants which are exercisable within 60 days of the date of this filing.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	MPM	Asse	t Management Investors BV4 LLC						
2.		Check the Appropriate Box if a Member of a Group (See Instructions)							
	(a)	(t	b) ⊠(1)						
3.	SEC U	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	WC								
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	Delaw	are							
		7.	Sole Voting Power						
Numb	er of		36,474(2)						
Sha		8.	Shared Voting Power						
Benefi Owne			0						
Eac		9.	Sole Dispositive Power						
Repor Pers			26.474(2)						
Wit	th:	10.	36,474(2) Shared Dispositive Power						
		10.	Shared Dispositive Fower						
11									
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	36,474(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent	of Cl	ass Represented by Amount in Row (11)						
	0.1%(3	3)							
14.	Type of	Repo	orting Person (See Instructions)						
	00								

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 2,106 shares of Common Stock underlying warrants which are exercisable within 60 days of the date of this filing.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	MPM	MPM BioVentures IV GP LLC							
2.			opropriate Box if a Member of a Group (See Instructions)						
	(a)	(t	b) ⊠(1)						
3.	SEC U	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	WC								
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	Delaw	are							
		7.	Sole Voting Power						
Numb	er of		0						
Sha		8.	Shared Voting Power						
Benefi Owne			1,367,405(2)						
Eac	ch	9.	Sole Dispositive Power						
Repor Pers									
Wit		10.	0 Shared Dispositive Power						
		10.	Shared Dispositive Fower						
			1,367,405(2)						
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	1,367,405(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent of Class Represented by Amount in Row (11)								
	4.2%(3	3)_							
14.	Type of	Repo	orting Person (See Instructions)						
	00								

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 1,209,511 shares of Common Stock held by BV IV QP and 46,600 shares of Common Stock held by BV IV KG. Also includes (i) 74,073 shares of Common Stock underlying warrants held by BV IV QP, which are exercisable within 60 days of the date of this filing and (ii) 2,853 shares of Common Stock underlying warrants held by BV IV KG, which are exercisable within 60 days of the date of this filing. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	MPM	MPM BioVentures IV LLC							
2.			opropriate Box if a Member of a Group (See Instructions)						
	(a)	(t	b) ⊠(1)						
3.	SEC U	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	WC								
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	Delaw	are							
		7.	Sole Voting Power						
Numb	er of		0						
Sha		8.	Shared Voting Power						
Benefi Owne			1,369,511(2)						
Eac	ch	9.	Sole Dispositive Power						
Repor Pers									
Wit		10.	0 Shared Dispositive Power						
		10.	Shared Dispositive Fower						
			1,369,511(2)						
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	1,369,511(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent of Class Represented by Amount in Row (11)								
	4.2%(3	3)							
14.	Type of	Repo	orting Person (See Instructions)						
	00								

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 1,209,511 shares of Common Stock held by BV IV QP, 46,600 shares of Common Stock held by BV IV KG and 34,368 shares of Common Stock held by AM LLC. Also includes (i) 74,073 shares of Common Stock underlying warrants held by BV IV QP, which are exercisable within 60 days of the date of this filing, (ii) 2,853 shares of Common Stock underlying warrants held by BV IV KG, which are exercisable within 60 days of the date of this filing and (iii) 2,106 shares of Common Stock underlying warrants held by AM LLC, which are exercisable within 60 days of the date of this filing. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG and BV IV LLC is the manager of AM LLC.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)						
	Ansber	rt Ga	dicke					
2.			propriate Box if a Member of a Group (See Instructions)					
	(a) 🗆	(t	b) ⊠(1)					
3.	SEC U	SE O	NLY					
4.	Source	of Fu	nds (See Instructions)					
	00							
5.		f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)					
6.	Citizens	ship o	r Place of Organization					
	United	l S <u>tat</u>	es					
		7.	Sole Voting Power					
Numb	er of		15,868					
Sha		8.	Shared Voting Power					
Benefi Owne			1 2/0 511/2					
Eac	•	9.	1,369,511(2) Sole Dispositive Power					
Repor		Э.	Sole Dispositive Power					
Pers Wit			15,868					
***		10.	Shared Dispositive Power					
			1,369,511(2)					
11.	Aggrega	Aggregate Amount Beneficially Owned by Each Reporting Person						
	1,385,379(2)							
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)							
13.	Percent	of Cl	ass Represented by Amount in Row (11)					
	4.2%(3	3)						
14.	`		orting Person (See Instructions)					
	IN							

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 1,209,511 shares of Common Stock held by BV IV QP, 46,600 shares of Common Stock held by BV IV KG and 34,368 shares of Common Stock held by AM LLC. Also includes (i) 74,073 shares of Common Stock underlying warrants held by BV IV QP, which are exercisable within 60 days of the date of this filing, (ii) 2,853 shares of Common Stock underlying warrants held by BV IV KG, which are exercisable within 60 days of the date of this filing and (iii) 2,106 shares of Common Stock underlying warrants held by AM LLC, which are exercisable within 60 days of the date of this filing. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG and BV IV LLC is the manager of AM LLC. The Reporting Person is a member of BV IV LLC.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	Luke I	Evnir	1						
2.			propriate Box if a Member of a Group (See Instructions)						
	(a) 🗆	(b	b) ⊠(1)						
3.	SEC U	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	00								
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	United	l Stat	es						
		7.	Sole Voting Power						
Numb	er of		50,895(2)						
Sha	res	8.							
Benefi Owne			1,369,511(3)						
Eac	ch	9.	Sole Dispositive Power						
Repor		/.	Sole Dispositive Fower						
Pers Wit			50,895(2)						
77.1		10.	Shared Dispositive Power						
			1,369,511(3)						
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	1,420,406(2)(3)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
	Check if the Aggregate Amount in Now (11) Excludes Certain Shares (See instructions)								
13.	Percent	of Cla	ass Represented by Amount in Row (11)						
	4.3%(4	4)							
14.	,		orting Person (See Instructions)						
	INI								

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Included 28,149 shares of Common Stock issuable pursuant to options exercisable within 60 days of the date of this filing.
- (3) Includes 1,209,511 shares of Common Stock held by BV IV QP, 46,600 shares of Common Stock held by BV IV KG and 34,368 shares of Common Stock held by AM LLC. Also includes (i) 74,073 shares of Common Stock underlying warrants held by BV IV QP, which are exercisable within 60 days of the date of this filing, (ii) 2,853 shares of Common Stock underlying warrants held by BV IV KG, which are exercisable within 60 days of the date of this filing and (iii) 2,106 shares of Common Stock underlying warrants held by AM LLC, which are exercisable within 60 days of the date of this filing. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG and BV IV LLC is the manager of AM LLC. The Reporting Person is a member of BV IV LLC.
- (4) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	Todd F	oley						
2.			propriate Box if a Member of a Group (See Instructions)					
	(a) 🗆	(b	b) ⊠(1)					
3.	SEC US	SE O	NLY					
4.	Source	of Fu	nds (See Instructions)					
		011	las (see instructions)					
	00							
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)					
6.	Citizens	ship or	r Place of Organization					
	United	l Stat	es					
		7.	Sole Voting Power					
Numb	er of		46					
Shar		8.	Shared Voting Power					
Benefic								
Owne Eac			1,369,511(2)					
Repor		9.	Sole Dispositive Power					
Pers			46					
Wit	ih:	10.	Shared Dispositive Power					
			1,369,511(2)					
11.	Aggregate Amount Beneficially Owned by Each Reporting Person							
11.								
	1,369,557(2)							
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)							
13.	Percent	of Cla	ass Represented by Amount in Row (11)					
	4.2%(3	3)						
14.		/	orting Person (See Instructions)					
	INI							

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 1,209,511 shares of Common Stock held by BV IV QP, 46,600 shares of Common Stock held by BV IV KG and 34,368 shares of Common Stock held by AM LLC. Also includes (i) 74,073 shares of Common Stock underlying warrants held by BV IV QP, which are exercisable within 60 days of the date of this filing, (ii) 2,853 shares of Common Stock underlying warrants held by BV IV KG, which are exercisable within 60 days of the date of this filing and (iii) 2,106 shares of Common Stock underlying warrants held by AM LLC, which are exercisable within 60 days of the date of this filing. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG and BV IV LLC is the manager of AM LLC. The Reporting Person is a member of BV IV LLC.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

1.	Name o	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)							
	James	Paul	Scopa						
2.			propriate Box if a Member of a Group (See Instructions)						
	(a) 🗆	(t	o) ⊠(1)						
3.	SEC U	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	00								
-		CD.	1 (I I D ' I D ' I D (I O O O O)						
5.	Check 1	1 Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	United	l Stat	es						
•		7.	Sole Voting Power						
Numb	er of		4,966						
Sha		8.	Shared Voting Power						
Benefi Owne									
Eac	-		1,369,511(2)						
Repor		9.	Sole Dispositive Power						
Pers Wit			4,966						
VV II	un:	10.	Shared Dispositive Power						
			1,369,511(2)						
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	1,374,477(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent of Class Represented by Amount in Row (11)								
14.	4.2%(3		orting Person (See Instructions)						
14.	1 ype oi	керс	itting reison (See instructions)						
	IN	IN							

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1.	Name o	f Rep	orting Persons. I.R.S. Identification No(s). of above person(s) (entities only)						
		Vaughn M. Kailian							
2.	(a) 🗆	(t	propriate Box if a Member of a Group (See Instructions) b) ⊠(1)						
3.	SEC US	SE O	NLY						
4.	Source	of Fu	nds (See Instructions)						
	OO								
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)						
6.	Citizens	ship o	r Place of Organization						
	United	l Stat	es						
		7.	Sole Voting Power						
Numb			8,225						
Shar Benefic		8.	Shared Voting Power						
Owne	ed by		1,369,511(2)						
Eac Repor		9.	Sole Dispositive Power						
Pers Wit			8,225						
1110		10.	Shared Dispositive Power						
			1,369,511(2)						
11.	Aggregate Amount Beneficially Owned by Each Reporting Person								
	1,377,736(2)								
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)								
13.	Percent	of Cla	ass Represented by Amount in Row (11)						
	4.2%(3	3)							
14.	Type of	`Repo	orting Person (See Instructions)						
	IN								

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1.	Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only)									
	John V	John Vander Vort								
2.			propriate Box if a Member of a Group (See Instructions) (a) ⊠(1)							
	(a) 🗆	`								
3.	SEC U	SE O	NLY							
4.	Source	of Fu	nds (See Instructions)							
	OO									
5.	Check i	f Disc	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)							
6.	Citizens	ship o	r Place of Organization							
	United	l Stat	es							
		7.	Sole Voting Power							
Numb	er of		2,127							
Sha: Benefi		8.	Shared Voting Power							
Owne	ed by		1,369,511(2)							
Eac Repor		9.	Sole Dispositive Power							
Pers Wit			2,127							
VV 10	.11.	10.	Shared Dispositive Power							
			1,369,511(2)							
11.	Aggregate Amount Beneficially Owned by Each Reporting Person									
	1,371,638(2)									
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)									
13.	Percent	of Cl	ass Represented by Amount in Row (11)							
	4.2%(3	3)								
14.	Type of	Repo	orting Person (See Instructions)							
	IN									

- (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.
- (2) Includes 1,209,511 shares of Common Stock held by BV IV QP, 46,600 shares of Common Stock held by BV IV KG and 34,368 shares of Common Stock held by AM LLC. Also includes (i) 74,073 shares of Common Stock underlying warrants held by BV IV QP, which are exercisable within 60 days of the date of this filing, (ii) 2,853 shares of Common Stock underlying warrants held by BV IV KG, which are exercisable within 60 days of the date of this filing and (iii) 2,106 shares of Common Stock underlying warrants held by AM LLC, which are exercisable within 60 days of the date of this filing. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG and BV IV LLC is the manager of AM LLC. The Reporting Person is a member of BV IV LLC.
- (3) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.

This Amendment No. 2 to Schedule 13D (this "Schedule 13D") amends and supplements the Schedule 13D previously filed by the undersigned with the Securities and Exchange Commission on February 18, 2011 and amended by Amendment No.1 filed November 29, 2011 (as amended, the "Original Schedule 13D"). This Schedule 13D/A is being filed to report the open market sales of shares, and distributions in kind, of common stock of Pacira Pharmaceuticals, Inc. (the "Company") by the MPM Entities.

All capitalized terms not otherwise defined herein shall have the meaning ascribed to the terms in the Original Schedule 13D. The Original Schedule 13D is hereby further amended and supplemented as follows and, except as expressly amended below, the Original Schedule 13D remains in full force and effect.

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:

The MPM Entities sold an aggregate of 500,000 shares of Common Stock in an open market transaction on March 11, 2013 for aggregate proceeds of \$13,930,000 and an aggregate of 500,000 shares of Common Stock in an open market transaction on March 18, 2013 for aggregate proceeds of \$14,221,644.80.

On March 18, 2013, the MPM Entities distributed in kind an aggregate of 1,000,000 shares of Common Stock held by the MPM Entities on a pro rata basis to their respective partners and members.

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:

Shares Issuable

(a) – (b) The following information with respect to the ownership of the Common Stock of the Issuer by the Filing Persons is provided as of March 18, 2013:

Shares Held Directly	of Warrants or Options to Purchase Common Stock Held Directly	Sole Voting Power	Shared Voting Power	Sole Dispositive Power	Shared Dispositive Power	Beneficial Ownershin	Percentage of Class (1)
1,209,511	74,073	1,283,584	0	1,283,584	0	1,283,584	3.9%
46,600	2,853	49,453	0	49,453	0	49,453	0.2%
34,368	2,106	36,474	0	36,474	0	36,474	0.1%
0	0	0	1,367,405	0	1,367,405	1,367,405	4.2%
0	0	0	1,369,511	0	1,369,511	1,369,511	4.2%
15,868	0	15,868	1,369,511	15,868	1,369,511	1,385,379	4.2%
22,746	28,149	50,895	1,369,511	50,895	1,369,511	1,420,406	4.3%
46	0	46	1,369,511	46	1,369,511	1,369,557	4.2%
4,966	0	4,966	1,369,511	4,966	1,369,511	1,374,477	4.2%
8,225	0	8,225	1,369,511	8,225	1,369,511	1,377,736	4.2%
2,127	0	2,127	1,369,511	2,127	1,369,511	1,371,638	4.2%
	Directly 1,209,511 46,600 34,368 0 0 15,868 22,746 46 4,966 8,225	Shares Held Directly 1,209,511 46,600 0 0 0 0 0 0 15,868 22,746 28,149 46,966 0 4,966 0 8,225	Shares Held Directly Flex Power	Shares Held Directly Sole Voting Power	Shares Held Directly Flower Dispositive Power Powe	Shares Held Directly Dispositive D	Shares Held Directly Dire

- (1) This percentage is calculated based upon 32,656,356 shares of the Issuer's Common Stock outstanding on February 25, 2013, as disclosed in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 3, 2013.
- (2) Includes securities held by BV IV QP and BV IV KG. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG.
- (3) Includes securities held by BV IV QP, BV IV KG and AM LLC. BV IV GP and BV IV LLC are the direct and indirect general partners of BV IV QP and BV IV KG and BV IV LLC is the manager of AM LLC.
- (4) Includes securities held by BV IV QP, BV IV KG and AM LLC. The Reporting Person is a member of BV IV LLC.
- (5) Includes shares issuable pursuant to options exercisable within 60 days of the date of this filing.
 - (c) The MPM Entities sold the following shares of Common Stock in the open market:

MPM Entity	Date of Transaction	Number of Shares Sold	Price	Per Share
BV IV QP	March 11, 2013	468,621	\$	27.86
BV IV KG	March 11, 2013	18,054	\$	27.86
AM LLC	March 11, 2013	13,325	\$	27.86
BV IV QP	March 18, 2013	468,600	\$	28.44(1)
BV IV KG	March 18, 2013	18,050	\$	28.44(1)
AM LLC	March 18, 2013	13,350	\$	28.44(1)

(1) Represents the weighted average sales price for the price increments ranging from \$27.90 to \$29.54.

On March 18, 2013, the MPM Entities distributed the following shares of Common Stock on a pro rata basis to their respective partners and members:

		Number of Shares
MPM Entity	Date of Transaction	Distributed
BV IV QP	March 18, 2013	937,241
BV IV KG	March 18, 2013	36,108
AM LLC	March 18, 2013	26,651

By virtue of the foregoing distributions, the following Reporting Persons received aggregate shares of Common Stock as set forth below:

Reporting Person	Date of Transaction	Number of Shares Received
Ansbert Gadicke	March 18, 2013	15,868
Luke Evnin	March 18, 2013	22,746
Todd Foley	March 18, 2013	46
James Paul Scopa	March 18, 2013	4,966
Vaughn Kailian	March 18, 2013	8,225
John Vander Vort	March 18, 2013	2,127

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- (d) Not applicable.
- (e) On March 18, 2013, 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 order:

B. Agreement regarding filing of joint Schedule 13D/A.

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.

Date: March 21, 2013

MPM BIOVENTURES IV GP LLC

By: MPM BioVentures IV LLC,

its Managing Member

By: /s/ Vaughn M. Kailian

Name: Vaughn M. Kailian

Title: Member

MPM BIOVENTURES IV LLC

By: /s/ Vaughn M. Kailian

Name: Vaughn M. Kailian

Title: Member

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/ Vaughn M. Kailian

Name: Vaughn M. Kailian

Title: Member

MPM BIOVENTURES IV GMBH & Co. BETEILIGUNGS

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

Managing Limited Partner

By: MPM BioVentures IV LLC, its Managing Member

By: /s/ Vaughn M. Kailian

Name: Vaughn M. Kailian

Title: Member

MPM ASSET MANAGEMENT INVESTORS BV4 LLC

By: MPM BioVentures IV LLC Its: Manager By: /s/ Vaughn M. Kailian Vaughn M. Kailian Name: Title: Member By: /s/ Ansbert Gadicke Ansbert Gadicke Name: /s/ Luke Evnin By: Luke Evnin Name: By: /s/ Todd Foley Name: Todd Foley By: /s/ James Paul Scopa James Paul Scopa Name: By: /s/ Vaughn M. Kailian Vaughn M. Kailian Name:

/s/ John Vander Vort

John Vander Vort

By:

Name:

Exhibit Index

B. Agreement regarding filing of joint Schedule 13D/A.

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Joint Filing Statement

I, the undersigned, hereby express my agreement that the attached Schedule 13D (and any amendments thereto) relating to the beneficial ownership by the undersigned of the equity securities of Pacira Pharmaceuticals, Inc. is filed on behalf of each of the undersigned.

Date: March 21, 2013

MPM BIOVENTURES IV GP LLC

MPM BioVentures IV LLC, By: its Managing Member By: /s/ Vaughn M. Kailian Name: Vaughn M. Kailian Title: Member MPM BIOVENTURES IV LLC By: /s/ Vaughn M. Kailian Name: Vaughn M. Kailian Member Title: MPM BIOVENTURES IV-QP, L.P. MPM BioVentures IV GP LLC, its General Partner By: By: MPM BioVentures IV LLC, its Managing Member

Name: Vaughn M. Kailian

Title: Member

MPM BIOVENTURES IV GMBH & Co. BETEILIGUNGS

/s/ Vaughn M. Kailian

KG

By:

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

Managing Limited Partner

By: MPM BioVentures IV LLC, its Managing Member

By: /s/ Vaughn M. Kailian

Name: Vaughn M. Kailian

Title: Member

MPM ASSET MANAGEMENT INVESTORS BV4 LLC

By: MPM BioVentures IV LLC Its: Manager By: /s/ Vaughn M. Kailian Vaughn M. Kailian Name: Title: Member By: /s/ Ansbert Gadicke Ansbert Gadicke Name: By: /s/ Luke Evnin Luke Evnin Name: By: /s/ Todd Foley Todd Foley Name: By: /s/ James Paul Scopa James Paul Scopa Name: By: /s/ Vaughn M. Kailian Vaughn M. Kailian Name:

/s/ John Vander Vort

John Vander Vort

By:

Name: