## SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

## **SCHEDULE 13D**

Under the Securities Exchange Act of 1934 (Amendment No. 2)\*

# MEI Pharma, Inc.

(Name of Issuer)

Common Stock, par value \$0.0000002 per share (Title of Class of Securities)

572322402 (CUSIP Number)

Craig L. Slutzkin
New Leaf Venture Management II, L.L.C.
Times Square Tower
7 Times Square, Suite 3502
New York, NY 10036
(646) 871-6420

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

 $\begin{tabular}{ll} May~6,~2013 \\ (Date~of~Event~Which~Requires~Filing~of~This~Statement) \\ \end{tabular}$ 

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 chedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g) check the following box. □
<b>lote:</b> Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to
rhom conies 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).

21.6% (2)

PN

14 Type of reporting person (see instructions)

CUSI	IP No. <u>572</u>	23224	02	
1			orting persons. IFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
			Venture Associates II, L.P.	
2	Check th		oropriate box if a member of a group (see instructions)  □	
3	SEC use	only		
3				
4	Source o	f fund	ds (see instructions)	
	AF			
5	Check if	discl	osure of legal proceedings is required pursuant to Items 2(d) or 2(e)	
6	Citizensl	hip or	place of organization	
	Dela	ware	e Limited Partnership	
			Sole voting power	
Νι	ımber of		0 shares	
	shares beneficially 8 Shared voting power			
owned by 4,145,475 shares (1)			4,145,475 shares (1)	
re	each reporting 9 Sole dispositive power			
]	person 0 shares			
	with 10 Shared dispositive power			
			4,145,475 shares (1)	
11	Aggrega	te am	ount beneficially owned by each reporting person	
	4,14	5,47	5 shares (1)	
12			ggregate amount in Row (11) excludes certain shares (see instructions) $\Box$	
13	Percent (	of clas	ss represented by amount in Row (11)	
15	1 electric of class represented by amount in flow (11)			

21.6% (2)

PN

14 Type of reporting person (see instructions)

CUS	IP No. <u>572</u>	23224	<u>402</u>		
1	Names of reporting persons. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
			Venture Management II, L.L.C.		
2	Check the appropriate box if a member of a group (see instructions)  (a) □ (b) □				
3	SEC use	only			
4	Source o	f fun	ds (see instructions)		
	AF				
5	Check if	disc	losure of legal proceedings is required pursuant to Items 2(d) or 2(e)		
6	Citizensl	hip o	r place of organization		
	Dela	war	re Limited Liability Company		
		7	Sole voting power		
Number of 0 shares		0 shares			
shares beneficially 8 Shared voting power		Shared voting power			
owned by 4,145,475 shares (1)					
re	each reporting 9 Sole dispositive power				
person with 0 shares		0 shares			
	10 Shared dispositive power				
	4,145,475 shares (1)				
11	Aggrega	te an	nount beneficially owned by each reporting person		
			75 shares (1)		
12	Check if	the a	aggregate amount in Row (11) excludes certain shares (see instructions) $\Box$		
13	Percent of	of cla	ass represented by amount in Row (11)		

21.6% (2)

PN

14 Type of reporting person (see instructions)

CUS	IP No. <u>572</u>	322	<u>402</u>		
1			orting persons. TIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
			. Chambon		
2	2 Check the appropriate box if a member of a group (see instructions) (a) □ (b) □				
3	3 SEC use only				
4	Source o	f fur	ds (see instructions)		
	AF				
5	Check if	disc	losure of legal proceedings is required pursuant to Items 2(d) or 2(e) $\Box$		
6	Citizensl	ip o	r place of organization		
	Fren	ch c	ritizen		
	7 Sole voting power				
N	umber of		0 shares		
be	shares 8 Shared voting power beneficially				
	wned by		4,145,475 shares (1)		
r	each eporting	9	Sole dispositive power		
	person with		0 shares		
		10	Shared dispositive power		
			4,145,475 shares (1)		
11	Aggrega	te an	nount beneficially owned by each reporting person		
			75 shares (1)		
12	Check if	the a	aggregate amount in Row (11) excludes certain shares (see instructions) $\Box$		
13	Percent o	of cla	ass represented by amount in Row (11)		
	21.6	% (2	2)		

Type of reporting person (see instructions)

IN

CUS	IP No. <u>572</u>	2322	<u>402</u>	
1			orting persons. TIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	James			
_				
2	Check the appropriate box if a member of a group (see instructions)  (a) □ (b) □			
3	3 SEC use only			
4	Source o	f fur	ds (see instructions)	
	AF			
5	Check if	disc	losure of legal proceedings is required pursuant to Items 2(d) or 2(e)	
6	Citizens	hip o	r place of organization	
	Unit	ed S	States citizen	
		7	Sole voting power	
Number of 0 shares				
	shares neficially	8	Shared voting power	
owned by 4,145,475 shares (1)		4,145,475 shares (1)		
r	each eporting	9	Sole dispositive power	
person 0 shares		0 shares		
	with	10	Shared dispositive power	
			4,145,475 shares (1)	
11	Aggrega	te an	nount beneficially owned by each reporting person	
			75 shares (1)	
12	Check if	the a	aggregate amount in Row (11) excludes certain shares (see instructions) $\Box$	
13	Percent (	of cla	ass represented by amount in Row (11)	
	21.6	% ('	2)	

Type of reporting person (see instructions)

IN

CUS	IP No. <u>572</u>	2322	<u>402</u>		
1	Names of reporting persons. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Vijay I				
2	2 Check the appropriate box if a member of a group (see instructions) (a) □ (b) □				
3	3 SEC use only				
4	Source o	f fur	ds (see instructions)		
	AF				
5	Check if	disc	losure of legal proceedings is required pursuant to Items 2(d) or 2(e)		
6	Citizensl	nip o	r place of organization		
	United States citizen				
	7 Sole voting power				
	Number of 0 shares				
	shares beneficially 8 Shared voting power				
owned by 4.145.475 shares (1)					
r	each eporting	9	Sole dispositive power		
	person with		0 shares		
	10 Shared dispositive power				
	4,145,475 shares (1)				
11	Aggrega	te an	nount beneficially owned by each reporting person		
			75 shares (1)		
12	Check if	the a	aggregate amount in Row (11) excludes certain shares (see instructions) $\Box$		
13	Percent of	of cla	ass represented by amount in Row (11)		
	21.6	% (	2)		

Type of reporting person (see instructions)

IN

CUS	IP No. <u>572</u>	2322	<u>402</u>		
1	Names of reporting persons. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Ronald				
2	Check the appropriate box if a member of a group (see instructions)  (a)   (b)   (c)				
3	3 SEC use only				
4	4 Source of funds (see instructions)				
	AF				
5	Check if	disc	losure of legal proceedings is required pursuant to Items 2(d) or 2(e) $\Box$		
6	Citizensl	nip o	r place of organization		
	Unit	ed S	States citizen		
	7 Sole voting power				
	ook roung power				
Number of 0 shares					
be	shares 8 Shared voting power beneficially				
owned by 4,145,475 shares (1)					
r	each eporting	9	Sole dispositive power		
person with 0 shares					
	WILLI	10	Shared dispositive power		
			4,145,475 shares (1)		
11	Aggrega	te an	nount beneficially owned by each reporting person		
			75 shares (1)		
12	Check if	the a	aggregate amount in Row (11) excludes certain shares (see instructions)		
13	Percent o	of cla	ass represented by amount in Row (11)		
	21.6	% C	2)		

Type of reporting person (see instructions)

IN

## CUSIP No. 572322402 Names of reporting persons. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Srinivas Akkaraju Check the appropriate box if a member of a group (see instructions) (a) 🗆 (b) □ SEC use only Source of funds (see instructions) Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) $\Box$ 5 Citizenship or place of organization United States citizen Sole voting power Number of 0 shares shares Shared voting power beneficially owned by 0 shares each Sole dispositive power reporting person 0 shares with 10 Shared dispositive power 0 shares Aggregate amount beneficially owned by each reporting person 0 shares Check if the aggregate amount in Row (11) excludes certain shares (see instructions) Percent of class represented by amount in Row (11) 13 Type of reporting person (see instructions)

IN

CUS	IP No. <u>572</u>	2322	<u>402</u>	
1			orting persons. TIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
			gardelle	
2	Check the appropriate box if a member of a group (see instructions)  (a)   (b)   (c)   (d)   (e)   (e)   (f)   (f)			
3	3 SEC use only			
4	Source o	f fur	ds (see instructions)	
	AF			
5	Check if	disc	losure of legal proceedings is required pursuant to Items 2(d) or 2(e) $\Box$	
6	Citizens	hip o	r place of organization	
	Unit	ed S	States citizen	
		7	Sole voting power	
Number of 0 shares				
shares beneficially 8 Shared voting power		Shared voting power		
owned by 4,145,475 shares (1)				
r	each eporting	9	Sole dispositive power	
	person with		0 shares	
	** 1(11	10	Shared dispositive power	
			4,145,475 shares (1)	
11	Aggrega	te an	nount beneficially owned by each reporting person	
			75 shares (1)	
12	Check if	the a	aggregate amount in Row (11) excludes certain shares (see instructions) $\Box$	
13	Percent (	of cla	ass represented by amount in Row (11)	
	21.6	% ('	2)	

Type of reporting person (see instructions)

IN

CUSIP No. 572322402

#### Item 1. Security and Issuer.

This Amendment No. 1 to the statement on Schedule 13D (this "Amendment No. 1") amends and supplements the statement on Schedule 13D filed on December 10, 2012 (the "Original 13D") as amended by Amendment No. 1 to the statement on Schedule 13D filed on March 1, 2013 ("Amendment No. 1" and together with the Original 13D and this Amendment No. 2, the "Schedule 13D") filed by the Reporting Persons, and relates to shares of Common Stock, \$0.0000002 par value (the "Common Stock") of MEI Pharma, Inc., a Delaware corporation (the "Issuer") having its principal executive offices at 11975 El Camino Real, Suite 101, San Diego, California 92130.

Except as specifically provided herein, this Amendment No. 2 does not modify any of the information previously reported on the Original 13D. All capitalized terms contained herein but not otherwise defined shall have the meanings ascribed to such terms in the Original 13D.

#### Item 2. Identity and Background.

Item No. 2 is amended by adding the following:

Srinivas Akkaraju resigned as a manager of NLV Associates and NLV Management on March 31, 2013.

#### Item 4. Purpose of the Transaction.

Item No. 4 is amended by adding the following:

As described in more detail in Item 5 below, NLV II sold a total of 457,300 shares of Common Stock from April 18, 2013 through May 8, 2013. Depending on market conditions, its continuing evaluation of the business and prospects of the Issuer and other factors, NLV II and other Reporting Persons may dispose of or acquire additional shares of the Issuer. Except as set forth above, none of the Reporting Persons has any present plans which relate to or would result in:

- (a) The acquisition by any person of additional securities of the Issuer, or the disposition of securities of the Issuer;
- (b) An extraordinary corporate transaction, such as a merger, reorganization or liquidation, involving the Issuer or any of its subsidiaries;
- (c) A sale or transfer of a material amount of assets of the Issuer or any of its subsidiaries;
- (d) Any change in the present board of directors or management of the Issuer, including any plans or proposals to change the number or term of directors or to fill any existing vacancies on the board;
- (e) Any material change in the present capitalization or dividend policy of the Issuer;
- (f) Any other material change in the Issuer's business or corporate structure;
- (g) Changes in the Issuer's charter, bylaws or instruments corresponding thereto or other actions which may impede the acquisition of control of the Issuer by any person;
- (h) Causing a class of securities of the Issuer to be delisted from a national securities exchange or to cease to be authorized to be quoted in an interdealer quotation system of a registered national securities association;

#### CUSIP No. 572322402

- (i) A class of equity securities of the Issuer becoming eligible for termination of registration pursuant to Section 12(g)(4) of the Securities Exchange Act of 1934; or
- (j) Any action similar to any of those enumerated above.

#### Item 5. Interest in Securities of the Issuer.

This Amendment No. 2 amends and restates Item 5 of the Original Schedule 13D in its entirety as set forth below:

(a) NLV II is the record owner of 2,045,475 shares of Common Stock and warrants (the "Warrants") to purchase an additional 2,100,000 shares of Common Stock (collectively, the "NLV II Securities"). As the sole general partner of NLV II, NLV Associates may be deemed to own beneficially the NLV II Securities. As the individual managers of NLV Management, each of the Managing Directors also may be deemed to own beneficially the NLV II Securities.

Each of the Reporting Persons may be deemed to own beneficially 21.6% of the Issuer's Common Stock, which percentage is calculated based upon 17,116,571 shares of Common Stock outstanding as of May 6, 2013, as reported in the Issuer's 10Q filed with the SEC on May 9, 2013, plus 2,100,000 shares of Common Stock issuable upon exercise of the Warrants. Each of the Reporting Persons, except NLV II, disclaims beneficial ownership of the NLV II Securities except to the extent of their pecuniary interest therein, if any.

- (b) Regarding the number of shares as to which such person has:
  - (i) sole power to vote or to direct the vote: See line 7 of cover sheets.
  - (ii) shared power to vote or to direct the vote: See line 8 of cover sheets.
  - (iii) sole power to dispose or to direct the disposition: See line 9 of cover sheets.
  - (iv) shared power to dispose or to direct the disposition: See line 10 of cover sheets.
- (c) NLV II sold 100,000 shares of Common Stock on April 18, 2013, 157,300 shares of Common Stock on April 19, 2013, 100,000 shares of Common Stock on May 6, 2013 and 100,000 shares of Common Stock on May 8, 2013. Except as set forth above, none of the Reporting Persons has effected any transaction in the Common Stock during the last 60 days.
- (d) No other person is known to have the right to receive or the power to direct the receipt of dividends from, or any proceeds from the sale of, shares beneficially owned by any of the Reporting Persons.
- (e) Upon his resignation as a manager from each of NLV Associates and NLV Management on March 31, 2013, Akkaraju ceased to be the beneficial owner of more than five percent of the Issuer's Common Stock. Accordingly, this is an exit filing for Akkaraju.

## CUSIP No. <u>572322402</u>

## Item 7. Materials to be Filed as Exhibits.

Exhibit 99.1 - Agreement regarding filing of joint Schedule 13D.

Exhibit 99.2 — Powers of Attorney regarding Schedule 13D filings.

Page 13 of 18

CUSIP No. 572322402

### **SIGNATURE**

After reasonable inquiry and to the best of its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: May 15, 2013

NEW LEAF VENTURES II, L.P.

By: NEW LEAF VENTURE ASSOCIATES II, L.P.

General Partner

By: NEW LEAF VENTURE MANAGEMENT II, L.L.C.

General Partner

By: /s/ Craig L. Slutzkin

Craig L. Slutzkin Chief Financial Officer

NEW LEAF VENTURE ASSOCIATES II, L.P.

By: NEW LEAF VENTURE MANAGEMENT II, L.L.C.

General Partner

By: /s/ Craig L. Slutzkin

Craig L. Slutzkin Chief Financial Officer

NEW LEAF VENTURE MANAGEMENT II, L.L.C.

By: /s/ Craig L. Slutzkin

Craig L. Slutzkin Chief Financial Officer

Chief Financial Officer

Philippe O. Chambon

James Niedel

Junies 1 vieue.

Vijay Lathi

Page 14 of 18

*	
Ronald Hunt	_
*	

/s/ Craig L. Slutzkin

Craig L. Slutzkin As attorney-in-fact

\* This Schedule 13D was executed by Craig L. Slutzkin on behalf of the individuals listed above pursuant to Powers of Attorney, copies of which are attached as Exhibit 99.2.

Page 15 of 18

#### AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13D need be filed with respect to the ownership by each of the undersigned of shares of stock and/or warrants to purchase shares of stock of MEI Pharma, Inc.

EXECUTED this 15th day of May, 2013.

NEW LEAF VENTURES II, L.P.

By: NEW LEAF VENTURE ASSOCIATES II, L.P.

General Partner

By: NEW LEAF VENTURE MANAGEMENT II, L.L.C.

General Partner

By: /s/ Craig L. Slutzkin

Craig L. Slutzkin Chief Financial Officer

NEW LEAF VENTURE ASSOCIATES II, L.P.

By: NEW LEAF VENTURE MANAGEMENT II, L.L.C.

General Partner

By: /s/ Craig L. Slutzkin

Craig L. Slutzkin Chief Financial Officer

NEW LEAF VENTURE MANAGEMENT II, L.L.C.

By: /s/ Craig L. Slutzkin

Craig L. Slutzkin Chief Financial Officer

\*

Philippe O. Chambon

\*

James Niedel

>

Vijay Lathi

Page 16 of 18

CUSIP No. <u>572322402</u>	
*	
Ronald Hunt	
*	
Jeani Delagardelle	

/s/ Craig L. Slutzkin

Craig L. Slutzkin
As attorney-in-fact

\* This Agreement was executed by Craig L. Slutzkin on behalf of the individuals listed above pursuant to Powers of Attorney, copies of which are attached as Exhibit 99.2.

Page 17 of 18

## Exhibit 99.2

Powers of Attorney dated October 5, 2005, September 29, 2006 and February 2, 2009 (incorporated by reference from Exhibit 99.2 to the statement on Schedule 13D relating to the Common Stock of MEI Pharma, Inc. filed by the undersigned with the Securities and Exchange Commission on December 10, 2012).

Page 18 of 18