PEPLIN INC Form SC 13D/A December 08, 2009

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

#### **SCHEDULE 13D**

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

Peplin, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
U7117K107
(CUSIP Number)
Vaughn M. Kailian
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)

November 11, 2009

(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. o

**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).

# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures IV Q-P, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power

SHARES
BENEFICIALLY
OWNED BY

EACH
REPORTING
PERSON

Shared Voting Power

Sole Dispositive Power

0

0

7.

NUMBER OF

WITH Shared Dispositive Power **10.** 

0

Aggregate Amount Beneficially Owned by Each Reporting Person

11.

0

Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

**12.** 

o

Percent of Class Represented by Amount in Row (11)

**13.** 

0.0%

Type of Reporting Person (See Instructions)

14.

PN

(1) This Amendment no. 2 to Schedule 13D is filed by 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), MPM BioVentures III, L.P. (BV III), MPM BioVentures III-QP, L.P. (BV III QP), MPM BioVentures III GmbH & Co. Beteiligungs KG (BV III KG), MPM BioVentures III Parallel Fund, L.P. (BV III PF), MPM Asset Management Investors 2004 BVIII LLC (AM BVIII LLC), MPM BioVentures Strategic Fund, L.P. (BV SF), MPM BioVentures III, GP, L.P. (BV III GP) and MPM BioVentures III, LLC (BV III LLC) (collectively, the MPM Entities) and Ansbert Gadicke, Luke Evnin, Steven St. Peter, William Greene, James Paul Scopa, Ashley Dombkowski, 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 and AM LLC and Luke Evnin and Ansbert Gadicke are Series A members of BV III LLC and managers of AM BV III LLC. The MPM Entities and the Listed Persons expressly disclaim status as a group for purposes of this Schedule 13D.

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### CUSIP No. U7117K107

**PERSON** 

0

Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures IV GmbH & Co. Beteiligungs KG Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Germany Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

WI	TH <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate A	mount Beneficially Owned by Each Reporting Person
	0	
12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
12.	0	
13.	Percent of Cl	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	PN	
		d by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 3

### CUSIP No. U7117K107

**PERSON** 

0

Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM Asset Management Investors BV4 LLC Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

WIT		Shared Dispositive Power
	10.	
		0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
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13.	Percent of Cla	ass Represented by Amount in Row (11)
	0.0%	
14.	Type of Repo	orting Person (See Instructions)
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		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 4

### CUSIP No. U7117K107

**PERSON** 

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Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures IV GP LLC Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

WI	TH <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate A	mount Beneficially Owned by Each Reporting Person
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12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
12.	0	
13.	Percent of Cl	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
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		d by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 5

# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures IV LLC Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware

Sole Voting Power

**Shared Voting Power** 

Sole Dispositive Power

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NUMBER OF

**SHARES** 

BENEFICIALLY

OWNED BY

**EACH** 

REPORTING PERSON

10

WI	ТН <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
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12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
	0	
13.	Percent of Cl	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
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		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 6

# CUSIP No. U7117K107 Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures III, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WIT		Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
	0	
12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
	0	
13.	Percent of Cla	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	PN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 7

# CUSIP No. U7117K107 Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures III-QP, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WI	TH <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate A	mount Beneficially Owned by Each Reporting Person
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12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
12.	0	
13.	Percent of Cl	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	PN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 8

### CUSIP No. U7117K107

**PERSON** 

0

Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures III GmbH & Co. Beteiligungs KG Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

WIT	<ul><li>ΓH Shared Dispositive Power</li><li>10.</li></ul>
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11.	Aggregate Amount Beneficially Owned by Each Reporting Person
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12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
12.	o
13.	Percent of Class Represented by Amount in Row (11)
13.	0.0%
14.	Type of Reporting Person (See Instructions)
14.	PN
	chedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and Listed Persons disclaim status as a group for purposes of this Schedule 13D.
	Page 9

# CUSIP No. U7117K107 Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures III Parallel Fund, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WIT	ГН <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
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12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
12.	0	
13.	Percent of Cla	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
17.	PN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 10

### CUSIP No. U7117K107

**PERSON** 

0

Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM Asset Management Investors 2004 BVIII LLC Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

Aggregate Amount Beneficially Owned by Each Reporting Person  11.  Oheck 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)  14.  OO  OO  OO  OO  OO  OO  OO  OO  OO	WITH		Shared Dispositive Power
Aggregate Amount Beneficially Owned by Each Reporting Person  11.  0  Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)  12.  o  Percent of Class Represented by Amount in Row (11)  13.  Type of Reporting Person (See Instructions)  14.  OO  (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons		10.	
11.  O  Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)  Percent of Class Represented by Amount in Row (11)  13.  O  Type of Reporting Person (See Instructions)  14.  OO  (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons			0
Percent of Class Represented by Amount in Row (11)  13.  Type of Reporting Person (See Instructions)  14.  OO  (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons	11.		nount Beneficially Owned by Each Reporting Person
Percent of Class Represented by Amount in Row (11)  13.  0.0%  Type of Reporting Person (See Instructions)  14.  OO  (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons	12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
13.  0.0%  Type of Reporting Person (See Instructions)  14.  OO  (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons		0	
Type of Reporting Person (See Instructions)  14.  OO  (1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons	13.	Percent of Cla	ass Represented by Amount in Row (11)
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(1) This Schedule is filed by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons	14.	Type of Repo	rting Person (See Instructions)
•		00	

Page 11

### CUSIP No. U7117K107

**PERSON** 

0

Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures Strategic Fund, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

WIT		Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
	0	
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
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13.	Percent of Cla	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	PN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 12

# CUSIP No. U7117K107 Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures III GP, L.P. Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power 7. NUMBER OF 0

**Shared Voting Power** 

Sole Dispositive Power

**SHARES** 

BENEFICIALLY

OWNED BY

**EACH** 

REPORTING PERSON

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WI	ТН <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
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12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
12.	0	
13.	Percent of Cl	ass Represented by Amount in Row (11)
13.	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	PN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 13

# CUSIP No. U7117K107 Name of Reporting Persons I.R.S. Identification No(s). of above person(s) (entities only) 1. MPM BioVentures III LLC Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. WC Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. Delaware Sole Voting Power

BENEFICIALLY 8.

OWNED BY

EACH
REPORTING
PERSON

Sole Dispositive Power
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**Shared Voting Power** 

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NUMBER OF

**SHARES** 

WITH		Shared Dispositive Power
	10.	
		0
11.	Aggregate An	nount Beneficially Owned by Each Reporting Person
	0	
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
	0	
13.	Percent of Cla	ass Represented by Amount in Row (11)
	0.0%	
14.	Type of Repo	rting Person (See Instructions)
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.

# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. Ansbert Gadicke Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WIT		Shared Dispositive Power	
	10.		
		0	
11.	Aggregate Amount Beneficially Owned by Each Reporting Person		
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)	
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13.	Percent of Cla	ass Represented by Amount in Row (11)	
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14.	Type of Repo	orting Person (See Instructions)	
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		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.	
		Page 15	

# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. Luke Evnin Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WI		Shared Dispositive Power			
	10.	0			
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person			
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12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
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13.	Percent of Cla	ass Represented by Amount in Row (11)			
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14.	Type of Repo	orting Person (See Instructions)			
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(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.					
		Page 16			

# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. Steven St. Peter Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9. REPORTING

**PERSON** 

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WI	TH	Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
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12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
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13.	Percent of Cla	ass Represented by Amount in Row (11)
	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	IN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
		Page 17

# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. William Greene Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WIT		Shared Dispositive Power	
	10.		
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11.	Aggregate Amount Beneficially Owned by Each Reporting Person		
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)	
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13.	Percent of Cla	ass Represented by Amount in Row (11)	
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<b>14.</b>	Type of Repo	orting Person (See Instructions)	
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		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.	
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# CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. James Paul Scopa Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

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REPORTING PERSON

WIT		Shared Dispositive Power		
	10.	0		
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person		
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12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)		
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13.	Percent of Cla	ass Represented by Amount in Row (11)		
	0.0%			
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.				
		Page 19		

## CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. Ashley Dombkowski Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

9.

0

REPORTING PERSON

WIT		Shared Dispositive Power		
	10.	0		
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person		
	0			
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)		
	0			
13.	Percent of Cla	ass Represented by Amount in Row (11)		
	0.0%			
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.				
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## CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. Vaughn M. Kailian Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power

9.

0

REPORTING PERSON

WI	ГН <b>10.</b>	Shared Dispositive Power
	10.	0
11.	Aggregate Ar	mount Beneficially Owned by Each Reporting Person
	0	
12.	Check if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)
	o	
13.	Percent of Cla	ass Represented by Amount in Row (11)
	0.0%	
14.	Type of Repo	orting Person (See Instructions)
	IN	
		by the MPM Entities and the Listed Persons. The MPM Entities and the Listed Persons as a group for purposes of this Schedule 13D.
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## CUSIP No. U7117K107 Name of Reporting Persons. I.R.S. Identification No(s). of above person(s) (entities only) 1. John Vander Vort Check the Appropriate Box if a Member of a Group (See Instructions) 2. (a) o (b) þ(1) SEC USE ONLY 3. Source of Funds (See Instructions) 4. 00 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) Or 2(e) 5. o Citizenship or Place of Organization 6. **United States** Sole Voting Power 7. NUMBER OF 0 **SHARES Shared Voting Power** 8. BENEFICIALLY 0 OWNED BY **EACH** Sole Dispositive Power 9.

REPORTING PERSON

0

WIT		Shared Dispositive Power			
	10.				
		0			
11.	Aggregate Amount Beneficially Owned by Each Reporting Person				
12.	Check if the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
	0				
13.	Percent of Cla	ass Represented by Amount in Row (11)			
	0.0%				
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.					
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Introductory Note: This Amendment No. 2 to Schedule 13D (this Amendment No. 2 ) amends and supplements the Schedule 13D originally filed with the United States Securities and Exchange Commission (the SEC ) on January 13, 2009 (the Original Schedule 13D ), as amended by Amendment No. 1 to Schedule 13D (Amendment No. 1 ) filed with the SEC on September 10, 2009. The entities and persons filing this statement are 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), MPM BioVentures III, L.P. (BV III), MPM BioVentures III-QP, L.P. (BV III QP), MPM BioVentures III GmbH & Co. Beteiligungs KG (BV III KG), MPM BioVentures III Parallel Fund, L.P. (BV III PF), MPM Asset Management Investors 2004 BVIII LLC (AM BVIII LLC), MPM BioVentures Strategic Fund, L.P. (BV SF), MPM BioVentures III, GP, L.P. (BV III GP) and MPM BioVentures III, LLC (BV III LLC) (collectively, the MPM Entities) and Ansbert Gadicke, Luke Evnin, Steven St. Peter, William Greene, James Paul Scopa, Ashley Dombkowski, Vaughn Kailian and John Vander Vort (collectively, the Listed Persons and together with the MPM Entities, the Filing Persons). This Original Schedule 13D, as amended by Amendment No. 1 and this Amendment No. 2 (the Schedule 13D) relates to the common stock, par value \$0.001 per share (the Common Stock), of Peplin, Inc. (the Issuer). The Issuer s principal executive office is located at 6475 Christie Avenue, Emeryville, CA 94608.

### **Item 4. Purpose of Transaction**

Item 4 of the Schedule 13D is hereby amended and supplemented by adding the following at the end thereof: Pursuant to the Merger Agreement, on November 11, 2009, Merger Sub merged with and into the Issuer, and the Issuer is now a wholly-owned subsidiary of Parent. In the Merger, each issued and outstanding share of the Issuer s Common Stock (including all shares of the Issuer s Common Stock held by the MPM Entities and the Listed Persons. including shares underlying CHESS Depository Interests (CDIs)) was converted into the right to receive \$16.99 in cash. In the Merger, each outstanding option to purchase shares of the Issuer s Common Stock with a per share exercise price less than \$16.99 (including all stock options held by James Paul Scopa) was cancelled in exchange for the right to receive a cash payment, without interest, equal to (i) \$16.99 less the per-share exercise price of such option, multiplied by (ii) the number of shares of the Issuer s Common Stock subject to such stock option. Any unexercised option to purchase shares of the Issuer s Common Stock with a per share exercise price equal to or greater than \$16.99 was cancelled without payment. In the Merger, each outstanding warrant to purchase shares of the Issuer s Common Stock with a per share exercise price less than \$16.99 (including all warrants held by the MPM Entities, including warrants exercisable for CDIs) was cancelled in exchange for the right to receive a cash payment, without interest, equal to (i) \$16.99 less the per-share exercise price of such warrant, multiplied by (ii) the number of shares of the Issuer s Common Stock subject to such stock warrant. Any unexercised warrant to purchase shares of the Issuer s Common Stock with a per share exercise price equal to or greater than \$16.99 was cancelled without payment.

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

Items 5 of the Original Schedule 13D is hereby amended and supplemented as follows:

- (a) As a result of the Merger, as of the date hereof the none of the MPM Entities, nor any of the Listed Persons, has beneficial ownership of any of the Issuer s securities.
- (b) None of the MPM Entities, nor any of the Listed Persons, has sole or shared power to vote or dispose, or to direct the disposition or the vote of, any shares of the Issuer s Common Stock.
- (c) Except as described herein, neither the MPM Entities nor the Listed Persons, to the knowledge of the MPM Entities, has effected any transactions in the Common Stock during the past 60 days.
- (d) No other person is known by the MPM Entities to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, shares of Common Stock beneficially owned by the MPM Entities.
  - (e) Not applicable.

### Item 7. Material to Be Filed as Exhibits

A. 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: December 4, 2009

#### 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 KG

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

By: MPM BioVentures IV LLC, its Managing Member

By: /s/ 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

Name: Vaughn M. Kailian

Title: Member

#### MPM BioVentures III, L.P.

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

By: MPM BioVentures III LLC, its General Partner

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

### MPM BioVentures III-QP, L.P.

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

By: MPM BioVentures III LLC, its General Partner

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

# MPM BioVentures III GmbH & Co. Beteiligungs KG

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

By: MPM BioVentures III LLC, its General Partner

By: /s/ Luke Evnin

#### MPM BioVentures III Parallel Fund, L.P.

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

By: MPM BioVentures III LLC, its General Partner

By: /s/ Luke Evnin

Name: Luke Evnin Title: Series A Member

# MPM Asset Management Investors 2004 BVIII LLC

By: /s/ Luke Evnin

Name: Luke Evnin Title: Manager

### MPM BioVentures Strategic Fund, L.P.

By: MPM BioVentures III GP, L.P., its

General Partner

By: MPM BioVentures III LLC, its

General Partner

By: /s/ Luke Evnin

Name: Luke Evnin Title: Series A Member

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

By: MPM BioVentures III LLC, its

General Partner

By: /s/ Luke Evnin

Name: Luke Evnin

Title: Series A Member

### MPM BioVentures III, LLC

By: /s/ Luke Evnin

Name: Luke Evnin

Title: Series A Member

/s/ Ansbert Gadicke

**Ansbert Gadicke** 

/s/ Luke Evnin

Luke Evnin

/s/ Steven St. Peter

Steven St. Peter

/s/ William Greene

William Greene

/s/ James Paul Scopa

**James Paul Scopa** 

/s/ Ashley Dombkowski

Ashley Dombkowski

/s/ Vaughn M. Kailian

Vaughn M. Kailian

/s/ John Vander Vort

John Vander Vort

### **Exhibit Index**

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

# **Exhibit A Joint Filing Statement**

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

Date: December 4, 2009

#### 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 KG

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

By: MPM BioVentures IV LLC, its Managing Member

By: /s/ 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 Name: Vaughn M. Kailian

Title: Member

### MPM BioVentures III, L.P.

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

By: MPM BioVentures III LLC, its General Partner

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

### MPM BioVentures III-QP, L.P.

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

By: MPM BioVentures III LLC, its General Partner

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

# MPM BioVentures III GmbH & Co. Beteiligungs KG

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

By: MPM BioVentures III LLC, its General Partner

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

# MPM BioVentures III Parallel Fund, L.P.

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

By: MPM BioVentures III LLC, its General Partner

By: /s/ Luke Evnin

Name: Luke Evnin Title: Series A Member

## MPM Asset Management Investors 2004 BVIII

LLC

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

### MPM BioVentures Strategic Fund, L.P.

By: MPM BioVentures III GP, L.P., its

General Partner

By: MPM BioVentures III LLC, its

General Partner

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

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

By: MPM BioVentures III LLC, its

General Partner

By: /s/ Luke Evnin

Name: Luke Evnin

Title: Series A Member

### MPM BioVentures III, LLC

By: /s/ Luke Evnin

Name: Luke Evnin

Title: Series A Member

/s/ Ansbert Gadicke

**Ansbert Gadicke** 

/s/ Luke Evnin

Luke Evnin

/s/ Steven St. Peter

Steven St. Peter

/s/ William Greene

William Greene

/s/ James Paul Scopa

**James Paul Scopa** 

/s/ Ashley Dombkowski

Ashley Dombkowski

/s/ Vaughn M. Kailian

Vaughn M. Kailian

/s/ John Vander Vort

John Vander Vort