STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

DOMBKOWSKI ASHLEY L

Form 4

November 13, 2009

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

OMB APPROVAL

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if no longer subject to Section 16. Form 4 or Form 5

obligations

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading KAILIAN VAUGHN M Issuer Symbol PEPLIN INC [PLIN] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director X 10% Owner Other (specify Officer (give title C/O MPM ASSET 11/11/2009 below) MANAGEMENT, 200 **CLARENDON STREET, 54TH FLOOR** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) Form filed by One Reporting Person _X_ Form filed by More than One Reporting BOSTON, MA 02116 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) 5. Amount of 7. Nature of Indirect Security (Month/Day/Year) Execution Date, if Transactionr Disposed of (D) Securities Ownership (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned Direct (D) Ownership Following or Indirect (Instr. 4) Reported (A) Transaction(s) (Instr. 4) or (Instr. 3 and 4) Code V Amount Price (D) See 3,419,056 Common 11/11/2009 D D (2)0 I Footnote (1) Stock (3)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	orDeriv Secur Acqu Dispo		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount o Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Warrants (right to buy)	\$ 7.86	11/11/2009		D		385,885	10/23/2008(4)	<u>(4)</u>	Common Stock	385,88
Warrants (right to buy) (6)	\$ 15.47 (7)	11/11/2009		D		196,852 (8)	06/26/2006(9)	<u>(9)</u>	Common Stock	196,85
Warrants (right to buy) (6)	\$ 15.47 (7)	11/11/2009		D		210,937 (8)	11/01/2006(11)	<u>(11)</u>	Common Stock	210,93

Reporting Owners

	Relationships				
Reporting Owner Name / Address	Director	10% Owner	Officer	Other	
KAILIAN VAUGHN M C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116		X			
GADICKE ANSBERT C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116		X			
EVNIN LUKE C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116		X			
St Peter Steven C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116		X			
Greene William C/O MPM ASSET MANAGEMENT 601 GATEWAY BLVD., SUITE 350		X			

Reporting Owners 2

SOUTH SAN FRANCISCO, CA 94080

DOMBKOWSKI ASHLEY L C/O MPM ASSET MANAGEMENT 601 GATEWAY BLVD., SUITE 350 SOUTH SAN FRANCISCO, CA 94080	X
Vander Vort John C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116	X
MPM BIOVENTURES III PARALLEL FUND, LP C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116	X
MPM Asset Management Investors 2004 BVIII LLC C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116	X
MPM BioVentures Strategic Fund LP C/O MPM ASSET MANAGEMENT 200 CLARENDON STREET, 54TH FLOOR BOSTON, MA 02116	X

Signatures

/s/ Vaughn M. Kailian		11/13/2009
	**Signature of Reporting Person	Date
/s/ Ansbert Gadicke		11/13/2009
	**Signature of Reporting Person	Date
/s/ Luke Evnin		11/13/2009
	**Signature of Reporting Person	Date
/s/ Steven St. Peter		11/13/2009
	**Signature of Reporting Person	Date
/s/ William Greene		11/13/2009
	**Signature of Reporting Person	Date
/s/ Ashley Dombkowski		11/13/2009
	**Signature of Reporting Person	Date
/s/ John Vander Vort		11/13/2009
		11/13/2009

Signatures 3

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**Signature of Reporting Person

Date

By Luke Evnin, Series A Member of MPM BioVentures III LLC, the general partner of MPM BioVentures III GP, LP, the general partner of MPM BioVentures III Parallel Fund, LP /s/ Luke Evnin

11/13/2009

**Signature of Reporting Person

Date

By Luke Evnin, manager of MPM Asset Management Investors 2004 BVIII LLC /s/ Luke Evnin

11/13/2009

**Signature of Reporting Person

Date

By Luke Evnin, Series A Member of MPM BioVentures III LLC, the general partner of MPM BioVentures III GP, LP, the general partner of MPM BioVentures Strategic Fund, L.P. /s/ Luke Evnin

11/13/2009

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- Represents shares of Common Stock underlying CHESS Depository Interests ("CDIs") acquired by the reporting persons. CDIs are units of beneficial ownership in shares of Common Stock held by CHESS Depositary Nominees Pty Limited, a wholly-owned subsidiary of the Australian Stock Exchange. The CDIs are economically equivalent to shares of Common Stock of the Issuer on a 1-for-20 basis.
- Disposed of pursuant to the merger agreement among LEO Pharma A/S, Plant Acquisition Sub, Inc. and Peplin, Inc. in exchange for \$16.99 per share in cash on the effective date of the merger.
 - The Common Stock equivalent of CDIs were held as follows: 2,717,315 by MPM BioVentures IV-QP, L.P. ("BV IV QP"), 104,680 by MPM BioVentures IV GmbH & Co. Beteiligungs KG ("BV IV KG"), 77,261 by MPM Asset Management Investors BV4 LLC ("AM BV4"), 25,510 by MPM BioVentures III, LP. ("BV III"), 379,381 by MPM BioVentures III-QP, LP ("BV III QP"), 11,456 by MPM BioVentures III Parallel Fund, LP ("BV III PF"), 32,061 by MPM BioVentures III GmbH & Co. Beteiligungs KG ("BV III KG"), 62,375 by MPM BioVentures Strategic Fund, LP ("BV SF") and 9,017 by MPM Asset Management Investors 2004 BVIII LLC ("AM
- (3) BV III"). Excludes fractional shares that result from the conversion of CDIs. MPM BioVentures IV GP LLC and MPM BioVentures IV LLC are the direct and indirect general partners of BV IV QP, BV IV KG and AM BV4. Vaughn M. Kailian, Ansbert Gadicke, Luke Evnin, Steven St. Peter, William Greene, James Paul Scopa, Ashley Dombkowski and John Vander Vort are the members of the general partner of BV IV QP, BV IV KG and members of AM BV4. MPM BioVentures III GP, L.P. ("BV III GP") and MPM BioVentures III LLC ("BV III LLC") are the direct and indirect general partners of BV III, BV III QP, BV III PF, BV III KG and BV SF. Luke Evnin and Ansbert Gadicke are Series A members of BV III LLC and managers of AM BV III. Each Reporting Person disclaims beneficial ownership of the securities except to the extent of his, her or its respective pecuniary interest therein.
- These warrants were canceled in the merger with LEO Pharma A/S in exchange for a cash payment in the aggregate of \$3,523,130.05,

 (4) representing the difference between the exercise price of the warrants and the merger consideration per share (\$16.99) multiplied by the total number of shares underlying the warrants.
- (5) The warrants were held as follows: 361,668 by BV IV QP, 13,933 by BV IV KG and 10,284 by AM BV4. Each member of the group disclaims beneficial ownership of the securities except to the extent of his, her or its respective pecuniary interest therein.
- (6) Represents options to purchase CDIs acquired by the Reporting Persons.
- The exercise price of this warrant is denominated in Australian dollars (A\$). The exercise price is A\$0.84 per CDI, or A\$16.80 per share of Common Stock issuable upon conversion of the CDIs. Based on the U.S. Dollar (US\$)/A\$ exchange rate in effect as of November 9, 2009, this equated to an exercise price, per share of Common Stock, of US\$15.47.
- (8) Represents shares of Common Stock of the Issuer issuable upon conversion of the CDIs underlying the related warrant, and excludes fractional shares that would result from the conversion of such CDIs into shares of Common Stock.
- These warrants were canceled in the merger with LEO Pharma A/S in exchange for a cash payment in the aggregate of \$298,333.90,

 (9) representing the difference between the exercise price of the warrants and the merger consideration per share (\$16.99) multiplied by the total number of shares underlying the warrants.
- (10) The warrants were held as follows: 184,498 by BV IV QP, 7,108 by BV IV KG and 5,246 by AM BV4. Each Reporting Person disclaims beneficial ownership of the securities except to the extent of his, her or its respective pecuniary interest therein.

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- These warrants were canceled in the merger with LEO Pharma A/S in exchange for a cash payment in the aggregate of \$319,680.00,
- (11) representing the difference between the exercise price of the warrants and the merger consideration per share (\$16.99) multiplied by the total number of shares underlying the warrants.
- (12) The warrants were held as follows: 197,699 by BV IV QP, 7,616 by BV IV KG and 5,622 by AM BV4. Each Reporting Person disclaims beneficial ownership of the securities except to the extent of his, her or its respective pecuniary interest therein.

Remarks:

See Form 4 for MPM BioVentures IV-QP, L.P. for additional members of this joint filing.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.