



The Manager
Companies Announcements Office
Australian Securities Exchange Limited
Level 4, Exchange Centre
20 Bridge Street
SYDNEY NSW 2000

15 October 2009

RE: Peplin, Inc. (ASX:PLI)

Lapse of options

Dear Sir / Madam,

The accompanying Appendix 3B is for the issue of 1,004 shares of common stock. These shares are issued pursuant to the exercise of vested options by employees that recently resigned, as follows:

504 share options	(PLIAA)
500 share options	(PLIAY)

In accordance with the terms of the Peplin, Inc. Incentive Award Plan (the "Incentive Plan"), as a result of employee resignations, the following options which were not exercised have been forfeited:

105 share options	(PLIAA)
575 share options	(PLIAQ)
500 share options	(PLIAY)

Also in accordance with the Incentive Plan, the following options have expired:

10,000 share options	(PLIAY)
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I would be grateful if you would note the foregoing to update your records and release this to the market.

Yours sincerely

Peplin, Inc.

David Smith
Chief Financial Officer and Company Secretary

PEPLIN, INC.
ARBN 126 884 393
6475 Christie Avenue, Emeryville, CA 94608, USA

Rule 2.7, 3.10.3, 3.10.4, 3.10.5

Appendix 3B

New issue announcement, application for quotation of additional securities and agreement

Information or documents not available now must be given to ASX as soon as available. Information and documents given to ASX become ASX's property and may be made public.

Introduced 1/7/96. Origin: Appendix 5. Amended 1/7/98, 1/9/99, 1/7/2000, 30/9/2001, 11/3/2002, 1/1/2003.

Name of entity

PEPLIN, INC.

ARBN

126 884 393

We (the entity) give ASX the following information.

Part 1 - All issues

You must complete the relevant sections (attach sheets if there is not enough space).

1 +Class of +securities issued or to be issued

Shares of Common Stock

2 Number of +securities issued or to be issued (if known) or maximum number which may be issued

1,004

3 Principal terms of the +securities (eg, if options, exercise price and expiry date; if partly paid +securities, the amount outstanding and due dates for payment; if +convertible securities, the conversion price and dates for conversion)

Fully paid Common Stock

<p>4 Do the +securities rank equally in all respects from the date of allotment with an existing +class of quoted +securities?</p> <p>If the additional securities do not rank equally, please state:</p> <ul style="list-style-type: none"> • the date from which they do • the extent to which they participate for the next dividend, (in the case of a trust, distribution) or interest payment • the extent to which they do not rank equally, other than in relation to the next dividend, distribution or interest payment 	<p>Yes</p>						
<p>5 Issue price or consideration</p>	<p>A\$7.10 - A\$8.80</p>						
<p>6 Purpose of the issue (If issued as consideration for the acquisition of assets, clearly identify those assets)</p>	<p>Common stock issued pursuant to exercise of options, granted under the Peplin, Inc. Incentive Award Plan, by outgoing employees.</p>						
<p>7 Dates of entering +securities into uncertificated holdings or despatch of certificates</p>	<p>9 October 2009</p>						
<p>8 Number and +class of all +securities quoted on ASX (<i>including</i> the securities in clause 2 if applicable)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Number</th> <th style="text-align: center;">+Class</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">178,921,120</td> <td style="text-align: center;">Share CDIs 20:1 (PLI)</td> </tr> <tr> <td style="text-align: center;">17,118,960</td> <td style="text-align: center;">Options CDIs (PLIO)</td> </tr> </tbody> </table>	Number	+Class	178,921,120	Share CDIs 20:1 (PLI)	17,118,960	Options CDIs (PLIO)
Number	+Class						
178,921,120	Share CDIs 20:1 (PLI)						
17,118,960	Options CDIs (PLIO)						

	Number	+Class
9 Number and +class of all +securities not quoted on ASX (including the securities in clause 2 if applicable)	15,203,383	Common Stock (including common stock held as CDIs)
	168,750	Restricted common stock (PLIAU)
	1,326,753	Warrants (PLIAW)
	369,267	Share Options (PLIAY)
	6,000	Share Options (PLIAI)
	58,987	Share Options (PLIAK)
	136,749	Share Options (PLIAQ)
	10,000	Share Options (PLIAM)
	25,000	Share Options (PLIAS)
	385,000	Share Options (PLIAO)
	219,000	Share Options (PLIAZ)
	192,556	Share Options (PLIAA)
	30,000	Share Options (PLIAB)
	5,000	Share Options (PLIAC)
	5,000	Share Options (PLIAD)
1,004	Share Options (New issue)	

10 Dividend policy (in the case of a trust, distribution policy) on the increased capital (interests)	Unchanged.
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Part 2 - Bonus issue or pro rata issue

- | | |
|---|--|
| 11 Is security holder approval required? | |
| 12 Is the issue renounceable or non-renounceable? | |
| 13 Ratio in which the +securities will be offered | |
| 14 +Class of +securities to which the offer relates | |
| 15 +Record date to determine entitlements | |
| 16 Will holdings on different registers (or subregisters) be aggregated for calculating entitlements? | |
| 17 Policy for deciding entitlements in relation to fractions | |

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+ See chapter for defined terms.

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|----|---|--|
| 18 | Names of countries in which the entity has +security holders who will not be sent new issue documents

<small>Note: Security holders must be told how their entitlements are to be dealt with. Cross reference: rule 7.7.</small> | |
| 19 | Closing date for receipt of acceptances or renunciations | |
| 20 | Names of any underwriters | |
| 21 | Amount of any underwriting fee or commission | |
| 22 | Names of any brokers to the issue | |
| 23 | Fee or commission payable to the broker to the issue | |
| 24 | Amount of any handling fee payable to brokers who lodge acceptances or renunciations on behalf of +security holders | |
| 25 | If the issue is contingent on +security holders' approval, the date of the meeting | |
| 26 | Date entitlement and acceptance form and prospectus or Product Disclosure Statement will be sent to persons entitled | |
| 27 | If the entity has issued options, and the terms entitle option holders to participate on exercise, the date on which notices will be sent to option holders | |
| 28 | Date rights trading will begin (if applicable) | |
| 29 | Date rights trading will end (if applicable) | |
| 30 | How do +security holders sell their entitlements <i>in full</i> through a broker? | |
| 31 | How do +security holders sell <i>part</i> of their entitlements through a broker and accept for the balance? | |

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+ See chapter for defined terms.

- 32 How do +security holders dispose of their entitlements (except by sale through a broker)?
- 33 +Despatch date

Part 3 - Quotation of securities

You need only complete this section if you are applying for quotation of securities

- 34 Type of securities
(tick one)
- (a) Securities described in Part 1
- (b) All other securities
Example: restricted securities at the end of the escrowed period, partly paid securities that become fully paid, employee incentive share securities when restriction ends, securities issued on expiry or conversion of convertible securities

Entities that have ticked box 34(a)

Additional securities forming a new class of securities

Tick to indicate you are providing the information or documents

- 35 If the +securities are +equity securities, the names of the 20 largest holders of the additional +securities, and the number and percentage of additional +securities held by those holders
- 36 If the +securities are +equity securities, a distribution schedule of the additional +securities setting out the number of holders in the categories
1 - 1,000
1,001 - 5,000
5,001 - 10,000
10,001 - 100,000
100,001 and over
- 37 A copy of any trust deed for the additional +securities

Entities that have ticked box 34(b)

38 Number of securities for which
+quotation is sought

39 Class of +securities for which
quotation is sought

40 Do the +securities rank equally in all
respects from the date of allotment
with an existing +class of quoted
+securities?

If the additional securities do not
rank equally, please state:

- the date from which they do
- the extent to which they
participate for the next dividend,
(in the case of a trust,
distribution) or interest payment
- the extent to which they do not
rank equally, other than in
relation to the next dividend,
distribution or interest payment

41 Reason for request for quotation
now

Example: In the case of restricted securities, end of
restriction period

(if issued upon conversion of
another security, clearly identify that
other security)

	Number	+Class
42 Number and +class of all +securities quoted on ASX (<i>including</i> the securities in clause 38)		

Quotation agreement

1 +Quotation of our additional +securities is in ASX's absolute discretion. ASX may quote the +securities on any conditions it decides.

2 We warrant the following to ASX.

- The issue of the +securities to be quoted complies with the law and is not for an illegal purpose.
- There is no reason why those +securities should not be granted +quotation.
- An offer of the +securities for sale within 12 months after their issue will not require disclosure under section 707(3) or section 1012C(6) of the Corporations Act.

Note: An entity may need to obtain appropriate warranties from subscribers for the securities in order to be able to give this warranty

- Section 724 or section 1016E of the Corporations Act does not apply to any applications received by us in relation to any +securities to be quoted and that no-one has any right to return any +securities to be quoted under sections 737, 738 or 1016F of the Corporations Act at the time that we request that the +securities be quoted.
- We warrant that if confirmation is required under section 1017F of the Corporations Act in relation to the +securities to be quoted, it has been provided at the time that we request that the +securities be quoted.
- If we are a trust, we warrant that no person has the right to return the +securities to be quoted under section 1019B of the Corporations Act at the time that we request that the +securities be quoted.

3 We will indemnify ASX to the fullest extent permitted by law in respect of any claim, action or expense arising from or connected with any breach of the warranties in this agreement.

4 We give ASX the information and documents required by this form. If any information or document not available now, will give it to ASX before +quotation of the +securities begins. We acknowledge that ASX is relying on the information and documents. We warrant that they are (will be) true and complete.

Sign here:  Date: **15 October 2009**
(~~Director~~/Company Secretary)

Print name: **David Smith**

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