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June 18, 2010

#### Via EDGAR and by Federal Express

Securities and Exchange Commission Division of Corporation Finance 100 F Street, N.E. Mail Stop 3561 Washington, D.C. 20549

## Re: Cyclacel Pharmaceuticals, Inc. Amendment No. 1 to Registration Statement on Form S-1/A Filed on June 11, 2010, as amended on June 18, 2010 File Number 333-167470

Ladies and Gentleman:

On behalf of Cyclacel Pharmaceuticals, Inc. (the "**Company**"), we hereby file with the Securities and Exchange Commission (the "**Commission**") Amendment No. 1 to Registration Statement on Form S-1/A (the "**Amendment**"), initially filed with the Commission on June 11, 2010, and as amended on June 18, 2010. We are also delivering five clean and marked complete courtesy copies of the Amendment to the attention of Bryan Pitko, Esq. of the Commission.

Set forth below are the Company's responses to the Commission's comment provided by a letter (the "**Comment Letter**") dated June 16, 2010, from Jeffrey P. Riedler, Esq., Assistant Director of the Division of Corporation Finance. The Company's response is numbered to correspond to the comment, as set forth in the Comment Letter, which, for convenience, we have incorporated into this response letter.

#### Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.

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### Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.

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# **General**

# **Incorporation of Documents by Reference, page 58**

**1.** We note that you filed a Current Report on Form 8-K on June 14, 2010. Under Item 12 of Form S-1 you must incorporate by reference all reports filed pursuant to Section 13(a) or 15(d) of the Exchange Act since the end of your fiscal year. Please revise your registration statement to incorporate by reference your Form 8-K filed June 14, 2010.

*<u>Response</u>*: We have amended "Incorporation of Documents by Reference" to include the foregoing Current Report on Form 8-K.

The Company acknowledges that:

- should the Commission or the staff, acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the Company from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the Company may not assert the declaration of effectiveness as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Please call Todd Mason at (212) 692-6731 or the undersigned at (212) 692-6774 with any comments or questions and please send a copy of any written comments to the following parties:

Joel I. Papernik, Esq. Todd E. Mason, Esq. Avisheh Avini, Esq. Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C. 666 Third Avenue New York, NY 10017 Phone: (212) 935-3000 Fax: (212) 983-3115

Very truly yours,

/s/ Joel I. Papernik Joel I. Papernik

cc: <u>Securities and Exchange Commission</u> (Jeffrey P. Riedler, Esq., Assistant Director)

<u>Cyclacel Pharmaceuticals, Inc.</u> (Spiro Rombotis, President and Chief Executive Officer; Paul McBarron, Chief Operating Officer, Chief Financial Officer and Executive Vice President, Finance)