

April 19, 2012

**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.  
Revised Preliminary Proxy Statement on Schedule 14A  
Filed on April 17, 2012  
File No. 000-50626**

Ladies and Gentleman:

On behalf of Cyclacel Pharmaceuticals, Inc. (the “**Company**”), we hereby file with the Securities and Exchange Commission (the “**Commission**”) a response to the oral comment provided by the staff (the “**Staff**”) of the Commission on April 18, 2012, with regard to the Company’s revised Preliminary Proxy Statement on Schedule 14A (File No. 000-50626) as filed with the Commission on April 17, 2012 (the “**Proxy Statement**”).

**General**

- We note that you are seeking approval to effect a reverse stock split at a ratio of up to 10:1 to be determined by the board of directors. Please revise your disclosure to describe any specific plans, arrangements or understandings, whether written or oral, to issue any of the authorized shares that will be newly available as a result of the approval of the reverse stock split. If you have no such plans, arrangements or understandings, please revise your disclosure to so state.**

Response: In response to the Staff’s comment, the Company has revised its disclosure on page 39 of the Proxy Statement so that the revised disclosure now reads as follows:

“The proposed amendment to our Certificate of Incorporation to effect the Reverse Stock Split, as more fully described below, will effect the Reverse Stock Split but will not change the number of authorized shares of Common Stock or preferred stock, or the par value of Common Stock or preferred stock. Although the primary purpose of the proposed Reverse Stock Split is to enable the Company to regain compliance with the \$1.00 per share minimum bid price for continued listing, the Board of Directors also considers it to be in the best interest of the Company to have a sufficient number of shares of Common Stock available for issuance in order to provide the Company with business and financing flexibility in the future. The Company does not, however, currently have any specific plans, arrangements or understandings relating to the issuance of any additional shares of authorized Common Stock that will become available following the Reverse Stock Split.”

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

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The Company hereby acknowledges that:

- the Company is responsible for the adequacy and accuracy of the disclosure in its filings;
- Staff comments or changes to disclosure to Staff comments do not foreclose the Commission from taking any action with respect to the filings; and
- The Company may not assert Staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Please call Jeffrey P. Schultz at (212) 692-6732 or the undersigned at (212) 692-6200 with any comments or questions and please send a copy of any written comments to the following parties:

**Jeffrey P. Schultz, Esq.**  
**Avisheh Avini, Esq.**  
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Very truly yours,

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

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