

Mail Stop 6010

June 12, 2006

William P. Peters, MD, PhD, MBA
Chief Executive Officer and Chairman of the Board
Adherex Technologies Inc.
4620 Creekstone Drive – Suite 200
Research Triangle Park
Durham, North Carolina 27703

**Re: Adherex Technologies Inc.
Registration Statement on Form F-3
Filed June 5, 2006
File No. 333-134732**

Dear Dr. Peters:

We have limited our review of your filing to resolution of your pending confidential treatment request. After any issues that arise during our examination of the request have been satisfied, we will consider your request for acceleration of the effective date of the registration statement.

Please understand that the purpose of our review process is to assist you in your compliance with the applicable disclosure requirements and to enhance the overall disclosure in your filing. We look forward to working with you in these respects. We welcome any questions you may have. Feel free to call us at the telephone numbers listed at the end of this letter.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes all information required under the Securities Act of 1933 and that they have provided all information investors require for an informed investment decision. Since the company and its management are in possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made.

In the event the company requests acceleration of the effective date of the pending registration statement, it should furnish a letter, at the time of such request, acknowledging that:

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- 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 staff comments and 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.

In addition, please be advised that the Division of Enforcement has access to all information you provide to the staff of the Division of Corporation Finance in connection with our review of your filing or in response to our comments on your filing.

We will consider a written request for acceleration of the effective date of the registration statement as confirmation of the fact that those requesting acceleration are aware of their respective responsibilities under the Securities Act of 1933 and the Securities Exchange Act of 1934 as they relate to the proposed public offering of the securities specified in the above registration statement. We will act on the request and, pursuant to delegated authority, grant acceleration of the effective date.

We direct your attention to Rules 460 and 461 regarding requesting acceleration of a registration statement. Please allow adequate time after the filing of any amendment for further review before submitting a request for acceleration. Please provide this request at least two business days in advance of the requested effective date.

Please contact Mary K. Fraser at (202) 551-3609 or me at (202) 551-3715 with any questions.

Sincerely,

Jeffrey P. Riedler
Assistant Director

cc: Donald R. Reynolds, Esq.
Wyrick Robbins Yates & Ponton LLP
4101 Lake Boone Trail – Suite 300
Raleigh, North Carolina 27607