



DIVISION OF
CORPORATION FINANCE

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

November 15, 2010

Mr. Peter Riehl
President and Chief Executive Officer
Stellar Pharmaceuticals, Inc.
544 Egerton Street
London, Ontario N5W 3Z8

**Re: Stellar Pharmaceuticals, Inc.
Registration Statement on Form F-3
Filed November 8, 2010
File No. 333-170459**

Dear Mr. Riehl:

We have limited our review of your registration statement to the issue we have addressed in our comment below. In our comment we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter by amending your registration statement and providing the requested information. Where you do not believe our comment applies to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing any amendment to your registration statement and the information you provide in response to this comment, we may have additional comments.

Experts, page 19

1. We note your statement that you have not filed an audit opinion for the years ended December 31, 2008 and 2007 in reliance on Rule 437 of the Securities Act of 1933. In order to rely on Rule 437, you must apply for a waiver from the Division of Corporation Finance, Office of Chief Accountant. We will not be in a position to accelerate the effectiveness of the registration statement until you have obtained a waiver or filed an auditor's consent.

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 the information the Securities Act of 1933 and all applicable Securities Act rules require. 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.

Mr. Peter Riehl
Stellar Pharmaceuticals, Inc.
November 15, 2010
Page 2

Notwithstanding our comments, in the event you request acceleration of the effective date of the pending registration statement please provide a written statement from the company acknowledging 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 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.

Please refer to Rules 460 and 461 regarding requests for acceleration. 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. Please allow adequate time for us to review any amendment prior to the requested effective date of the registration statement.

Please contact Laura Crotty at (202) 551-3563 or me at (202) 551-3715 with any questions.

Sincerely,

Jeffrey P. Riedler
Assistant Director

cc: Stephen E. Fox, Esq. (Herrick, Feinstein LLP)