



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

September 17, 2015

Via E-mail

Blake M. Patterson, M.D.
President and Chief Executive Officer
Cerecor Inc.
400 E. Pratt Street, Suite 606
Baltimore, Maryland 21202

**Re: Cerecor Inc.
Amendment No.1 to
Registration Statement on Form S-1
Filed September 8, 2015
File No. 333-204905**

Dear Dr. Patterson:

We have reviewed your amended registration statement and have the following comment. Please respond to this letter by amending your registration statement again and providing the requested information. If you do not believe this comment is applicable to your facts and circumstances or do not believe another amendment is appropriate, please tell us why in a response.

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

Use of Proceeds, page 63

1. You disclose that you expect the net proceeds of your offering at an assumed offering price of \$6.50 to be approximately \$24.8 million or \$26.1 million if the underwriters exercise their overallotment option. Please tell us how you computed each of these amounts as we cannot re-compute them based on the number of shares you expect to sell in each scenario coupled with reasonable underwriters' commissions and the other offering expenses you disclose on page II-1. In your response, tell us why the exercise of the overallotment results in only a \$1.3 million increase in estimated net proceeds equating to approximately \$2.05 per overallotment share when the gross proceeds for these 634,615 shares at \$6.50 per share is approximately \$4.1 million.

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.

Notwithstanding our comment, 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.

You may contact Mark Brunhofer at (202) 551-3613 or James Rosenberg at (202) 551-3679 if you have questions regarding comments on the financial statements and related matters. Please contact Scot Foley at (202) 551-3383 or me at (202) 551-3675 with any other questions.

Sincerely,

Jeffrey P. Riedler
Assistant Director

cc: Joanne R. Soslow, Esq.
Kevin S. Shmelzer, Esq.
Morgan, Lewis & Bockius LLP
1701 Market Street
Philadelphia, PA 19103