



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

DIVISION OF  
CORPORATION FINANCE

Mail Room 3030

April 26, 2016

Via E-mail

Scott W. Hollander  
Chief Executive Officer  
Echo Therapeutics, Inc.  
99 Wood Avenue South, Suite 302  
Iselin, N.J. 08830

**Re: Echo Therapeutics, Inc.  
Registration Statement on Form S-3  
Filed April 14, 2016  
File No. 333-210738**

Dear Mr. Hollander:

This is to advise you that we have not reviewed and will not review your registration statement.

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.

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.

Scott W. Hollander  
Echo Therapeutics, Inc.  
April 26, 2016  
Page 2

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 registered securities.

Please contact Heather Percival at (202) 551-3498 with any questions.

Sincerely,

/s/ Heather Percival for

Amanda Ravitz  
Assistant Director  
Office of Electronics and Machinery

cc: Kevin W. Waite, Esq.  
Moomjian, Waite & Coleman, LLP