



DIVISION OF  
CORPORATION FINANCE

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

October 24, 2013

Via Email

Christopher P. Schnittker  
Senior Vice President and  
Chief Financial Officer  
Echo Therapeutics, Inc.  
8 Penn Center, 1628 JFK Blvd, Suite 300  
Philadelphia, Pennsylvania 19103

**Re: Echo Therapeutics, Inc.  
Form 10-K for the Fiscal Year Ended December 31, 2012  
Filed March 18, 2013  
File No. 001-35218**

Dear Mr. Schnittker:

We have completed our review of your filing. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filing 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. 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 Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Brian Cascio

Brian Cascio  
Accounting Branch Chief