



DIVISION OF  
CORPORATION FINANCE

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

December 13, 2017

Christopher K. Mirabelli, Ph.D.  
Chairman, President and Chief Executive Officer  
Leap Therapeutics, Inc.  
47 Thorndike Street, Suite B1-1  
Cambridge, MA 02141

**Re: Leap Therapeutics, Inc.  
Registration Statement on Form S-3  
Filed December 8, 2017  
File No. 333-221968**

Dear Dr. Mirabelli:

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

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Chris Edwards at (202) 551-6761 with any questions.

Division of Corporation Finance  
Office of Healthcare & Insurance

cc: Julio E. Vega, Esq.