

June 4, 2019

Keith Leonard, Jr.  
Chief Executive Officer  
Unity Biotechnology, Inc.  
3280 Bayshore Blvd, Suite 100  
Brisbane, CA 94005

Re: Unity Biotechnology, Inc.  
Registration Statement on Form S-3  
Filed June 3, 2019  
File No. 333-231893

Dear Mr. Leonard:

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 Sonia Bednarowski at 202-551-3666 with any questions.

Sincerely,

Division of

Office of

Corporation Finance  
Healthcare & Insurance