

June 9, 2020

Ian Mortimer  
Chief Financial Officer  
Xenon Pharmaceuticals Inc.  
200 3650 Gilmore Way  
Burnaby, British Columbia V5G 4W8 Canada

Pharmaceuticals Inc.  
Statement on Form S-3

Re: Xenon

Registration

Filed June 3, 2020  
File No. 333-238896

Dear Mr. Mortimer:

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.

Lindsay at (202) 551-7237 with any questions.

Please contact Courtney

Sincerely,

Division of Corporation Finance  
Office of Life Sciences