

August 2, 2022

Paula Ragan, Ph.D.  
Chief Executive Officer  
X4 Pharmaceuticals, Inc.  
61 North Beacon Street, 4th Floor  
Boston, MA 02134

Inc.

Statement on Form S-3

Re: X4 Pharmaceuticals,

Registration

Filed July 29, 2022

File No. 333-266410

Dear Dr. Ragan:

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 Jason Drory at 202-551-8342 with any questions.

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc:

Courtney Thorne