

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

August 21, 2023

Adam Mostafa Chief Financial Officer and Treasurer X4 Pharmaceuticals, Inc 61 North Beacon Street, 4th Floor Boston, MA 02134

> Re: X4 Pharmaceuticals, Inc Registration Statement on Form S-3 Filed August 14, 2023 File No. 333-273961

Dear Adam Mostafa:

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 Doris Stacey Gama at 202-551-3188 with any questions.

Sincerely,

Division of Corporation Finance Office of Life Sciences

cc: Daniel I. Goldberg, Esq.