

February 1, 2024

Manuel Alves-Aivado
Chief Executive Officer
Aileron Therapeutics Inc.
738 Main Street #398
Waltham, MA 02451

Therapeutics Inc.
Statement on Form S-3
2024

Re: Aileron
Registration
Filed January 29,
File No. 333-276746

Dear Manuel Alves-Aivado:

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.

Hamill at 303-844-1008 with any questions.

Please contact Lauren

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc:

Craig Hilts