



DIVISION OF
CORPORATION FINANCE

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

January 26, 2021

Elizabeth Hougen
Chief Financial Officer
Ionis Pharmaceuticals, Inc.
2855 Gazelle Court
Carlsbad, California

Re: Ionis Pharmaceuticals, Inc.
Form 10-K for the Fiscal Year Ended December 31, 2019
Filed March 2, 2020
File No. 000-19125

Dear Ms. Hougen:

We have completed our review of your filing. 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.

Sincerely,

Division of Corporation Finance
Office of Life Sciences