

February 11, 2021

Michael Landsittel
Chief Financial Officer
Blueprint Medicines Corp
45 Sidney Street
Cambridge, Massachusetts 02139

Fiscal Year Ended December 31, 2019
2020

Re: Form 10-K for the
Filed February 13,
File No. 001-37359

Dear Mr. Landsittel:

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