



DIVISION OF
CORPORATION FINANCE

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

October 11, 2017

William B. O'Connor
Chief Financial Officer
The Medicines Company
8 Sylvan Way
Parsippany, NJ 07054

Re: The Medicines Company
Form 10-K for the Fiscal Year Ended December 31, 2016
Filed March 1, 2017
File No. 000-31191

Dear Mr. O'Connor:

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 by the staff.

Division of Corporation Finance
Office of Healthcare & Insurance