



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