



DIVISION OF
CORPORATION FINANCE

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

January 13, 2012

Via E-mail

Glenn P. Sblendorio
Executive Vice President
And Chief Financial Officer
The Medicines Company
8 Sylvan Way
Parsippany, New Jersey 07054

**Re: The Medicines Company
Form 10-Q for the Quarterly Period Ended June 30, 2011
Filed August 2, 2011
File No. 000-31191**

Dear Mr. Sblendorio:

We have completed our review of your filing. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filings and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filings to be certain that the filings include the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Joel Parker

Joel Parker
Accounting Branch Chief