

*Via Facsimile and U.S. Mail*  
Mail Stop 4720

November 16, 2009

Mr. Glenn P. Sblendorio  
Executive Vice President and 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, 2008**  
**Schedule 14A filed April 30, 2009**  
**File Number: 000-31191**

Dear Mr. Sblendorio:

We have completed our review of your Form 10-K and related filings and have no further comments at this time.

Sincerely,

Jeffrey P. Riedler  
Assistant Director