

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

Mail Stop 3561

March 14, 2011

## Via U.S. Mail

Ms. Nicole M. Ringenberg, Vice President and Controller Monsanto Company 800 North Lindbergh Boulevard St. Louis, Missouri 63167

**Re:** Monsanto Company

Form 10-K for the fiscal year ended August 31, 2010

Filed October 27, 2010

Form 10-Q for the quarter ended November 30, 2010

Filed January 7, 2011 File No. 001-16167

Dear Ms. Ringenberg:

We have completed our review of your Form 10-K and related filings and do not, at this time, have any further comments.

Sincerely,

Linda Cvrkel Branch Chief