



DIVISION OF
CORPORATION FINANCE

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

Mail Stop 3561

February 23, 2010

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, 2009
Filed October 27, 2009
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