



DIVISION OF  
CORPORATION FINANCE

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

August 3, 2012

Via E-mail

Gregory Q. Brown  
Chief Executive Officer  
Motorola Solutions, Inc.  
1303 East Algonquin Road  
Schaumburg, IL 60196

**Re: Motorola Solutions, Inc.  
Form 10-K for the Year Ended December 31, 2011  
Filed February 15, 2012  
File No. 001-07221**

Dear Mr. Brown:

We have completed our review of your filings. 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/ Robert S. Littlepage for

Larry Spigel  
Assistant Director