



DIVISION OF  
CORPORATION FINANCE

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

May 27, 2011

Joseph J. Sweeney, Esq.  
Senior Vice President, General Counsel and  
Corporate Secretary  
Applied Materials, Inc.  
3050 Bowers Avenue  
P.O. Box 58039  
Santa Clara, CA 95052-8039

**Re: Applied Materials, Inc.**  
**Form 10-K for the fiscal year ended October 31, 2010**  
**Filed December 10, 2010**  
**File No. 000-06920**

Dear Mr. Sweeney:

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 filing 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 filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

Assistant Director  
Amanda Ravitz