



DIVISION OF  
CORPORATION FINANCE

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

Mail Stop 3030

May 17, 2016

Via E-mail

Gregory R. Beecher  
Vice President and Chief Financial Officer  
Teradyne, Inc.  
600 Riverpark Drive  
North Reading, Massachusetts 01864

**Re: Teradyne, Inc.**  
**Form 10-K for the Fiscal Year Ended December 31, 2015**  
**Filed February 29, 2016**  
**File No. 001-06462**

Dear Mr. Beecher:

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/ Martin James

Martin James  
Senior Assistant Chief Accountant  
Office of Electronics and Machinery