



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

DIVISION OF
CORPORATION FINANCE

Mail Stop 3030

May 24, 2017

Via E-mail

Gregory R. Beecher
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, 2016
Filed March 1, 2017
File No. 001-06462

Dear Mr. Beecher:

We have completed our review of your filings. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Sincerely,

/s/ Martin James

Martin James
Senior Assistant Chief Accountant
Office of Electronics and Machinery