



DIVISION OF  
CORPORATION FINANCE

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

December 17, 2013

Via Email

Mr. Asher Levy  
Chief Executive Officer  
Orbotech, Ltd.  
Sanhedrin Boulevard  
North Industrial Zone  
Yavne 81101, Israel

**Re: Orbotech, Ltd.**  
**Form 20-F for the Fiscal Year Ended December 31, 2012**  
**Filed February 22, 2013**  
**File No.: 000-12790**

Dear Mr. Levy:

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,

/s/ Kevin L. Vaughn

Kevin L. Vaughn  
Accounting Branch Chief