



DIVISION OF  
CORPORATION FINANCE

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

August 6, 2010

Mr. Jeff Killian  
Chief Financial Officer  
Cascade Microtech, Inc.  
2430 NW 206<sup>th</sup> Avenue  
Beaverton, Oregon 97006

**Re: Cascade Microtech, Inc.  
Form 10-K  
Filed March 2, 2010  
File No. 000-51072**

Dear Mr. Killian:

We have completed our review of your filings and do not have any further comments at this time.

Sincerely,

Brian Cascio  
Accounting Branch Chief