



DIVISION OF  
CORPORATION FINANCE

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

October 26, 2010

Mr. Michael J. Lambert  
Chief Financial Officer  
NuVasive, Inc.  
7475 Lusk Boulevard  
San Diego, California 92121

**Re: NuVasive, Inc.**  
**Form 10-K for the Fiscal Year Ended December 31, 2009**  
**Filed February 26, 2010**  
**File No. 000-50744**

Dear Mr. Lambert:

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

Sincerely,

Jeff Jaramillo  
Accounting Branch Chief