



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