



DIVISION OF  
CORPORATION FINANCE

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

Mail Stop 3720

April 24, 2009

Harley E. Barnes III  
Chief Financial Officer  
RF Monolithics, Inc.  
4441 Sigma Road  
Dallas, TX 74244

**Re: RF Monolithics, Inc.  
Form 10-K for the Fiscal Year Ended August 31, 2008  
Filed November 24, 2008 and Amendments Filed December 5, 2008 and  
April 23, 2009  
File No. 0-24414**

Dear Mr. Barnes:

We have completed our review of your Form 10-K and related filings and do not, at this time, have any further comments.

Sincerely,

Larry Spigel  
Assistant Director