



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

Mail Stop 3030

January 7, 2010

Via U.S. Mail

Mr. Thomas F. Rose
Chief Financial Officer
RTI Biologics, Inc.
11621 Research Circle
Alachua, Florida 32615

**Re: RTI Biologics, Inc.
Form 10-K for the Year Ended December 31, 2008
File No. 000-31271**

Dear Mr. Rose:

We have completed our review of your Form 10-K and related filings and have no further comments at this time.

Sincerely,

Kevin L. Vaughn
Accounting Branch Chief