

Via Facsimile and U.S. Mail  
Mail Stop 6010

January 10, 2008

Mr. John A. McCarthy, Jr.  
Executive Vice President and Chief Financial Officer  
Verenium Corporation  
55 Cambridge Parkway  
Cambridge, Massachusetts 02142

Re:   **Verenium Corporation**  
      **Form 10-K for Fiscal Year Ended December 31, 2006**  
      **Form 10-Q for the Quarterly Period Ended September 30, 2007**  
      **File No. 0-29173**

Dear Mr. McCarthy:

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

Sincerely,

Joel Parker  
Branch Chief