

Via Facsimile and U.S. Mail  
Mail Stop 6010

December 18, 2008

Richard W. Hunt  
Chief Financial Officer  
Osiris Therapeutics, Inc.  
7015 Albert Einstein Drive  
Columbia, MD 21046

**Re: Osiris Therapeutics, Inc.**  
**Form 10-K for the Year Ended December 31, 2007**  
**Form 10-Q for the Quarterly Period Ended June 30, 2008**  
**File Number: 001-32966**

Dear Mr. Hunt:

We have completed our review of your above Forms 10-K and 10-Q and have no further comments at this time.

Sincerely,

Joel Parker  
Accounting Branch Chief