

Mail Stop 4561

February 26, 2010

Tyler Wall
Vice President and General Counsel
Brocade Communications Systems, Inc.
1745 Technology Drive
San Jose, CA 95110

**Re: Brocade Communications Systems, Inc.
Form 10-K for Fiscal Year Ended October 31, 2009
Filed December 14, 2009
File No. 000-25601**

Dear Mr. Wall:

We have completed our review of the above referenced filing and have no further comments at this time.

Sincerely,

Barbara C. Jacobs
Assistant Director

cc: Via facsimile to: (650) 493-6811
Katharine A. Martin, Esq.
Wilson Sonsini Goodrich & Rosati