

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

DIVISION OF CORPORATION FINANCE

December 28, 2010

Kenneth B. Stratton General Counsel StemCells, Inc. 3155 Porter Drive Palo Alto, CA 94304

> Re: StemCells, Inc. Form 10-K for the Fiscal Year Ended December 31, 2009 Definitive Proxy Statement filed April 13, 2010 File No. 000-19871

Dear Mr. Stratton:

We have completed our review of your filings and do not have any further comments at this time.

Sincerely,

Jeffrey Riedler Assistant Director