



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

DIVISION OF
CORPORATION FINANCE

June 8, 2015

Via Email

Mr. Alan J. Dean
Chief Financial Officer
CBOE Holdings, Inc.
400 South LaSalle Street
Chicago, IL 60605

**Re: CBOE Holdings, Inc.
Form 10-K
Filed February 20, 2015
File No. 001-34774**

Dear Mr. Dean:

We have completed our review of your filing. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filing and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Jaime G. John

Jaime G. John
Branch Chief