

DIVISION OF CORPORATION FINANCE

Mail Stop 3233

September 28, 2017

<u>Via E-mail</u> Mr. Alan J. Dean Chief Financial Officer CBOE Holdings, Inc. 400 South LaSalle Street Chicago, IL 60605

> Re: CBOE Holdings, Inc. Form 10-Q for the quarterly period ended June 30, 2017 Filed August 4, 2017 File No. 1-34774

Dear Mr. Dean:

We have completed our review of your filing. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

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

Sincerely,

/s/ Shannon Sobotka

Shannon Sobotka Staff Accountant Office of Real Estate and Commodities