Mail Stop 4563

By U.S. Mail and facsimile to (312) 930-4556

Craig S. Donohue Chief Executive Officer Chicago Mercantile Exchange Holdings, Inc. 20 South Wacker Drive Chicago, Illinois 60606

Re: Chicago Mercantile Exchange Holdings, Inc.

Definitive 14A Filed March 15, 2007 File No. 00-33379

Dear Mr. Donohue:

We have completed our review of your executive compensation and related disclosure, and we have no further comments at this time.

Please note that the company is responsible for the adequacy and accuracy of the disclosure in its filing. We are not approving any proposed disclosure you may have included in your response letter or any disclosure you include in your future filings in response to our comments.

If you have any further questions regarding our review of your filing, please call me at (202) 551-3419.

Sincerely,

Christian Windsor Special Counsel