May 3, 2005

Robert E. Hult Senior Vice President and Chief Financial Officer Mercury Computer Systems, Inc. 199 Riverneck Road Chelmsford, MA 01824

> Mercury Computer Systems, Inc. Re:

Form 10-K for the fiscal year ended June 30, 2004

Filed September 10, 2004

Form 10-Q for the quarter ended December 31, 2004 File No. 0-23599

Dear Mr. Hult:

We have completed our review of your Form 10-K and related filings and do not, at this time, have any further comments.

Sincerely,

Martin F. James Senior Assistant Chief Accountant