

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

Mail Stop 3030

August 7, 2009

Bradley C. Anderson Vice President – Finance and Chief Financial Officer Amtech Systems, Inc. 131 South Clark Drive Tempe, Arizona 85281

Re: Amtech Systems, Inc.

Form 10-K for the fiscal year ended September 30, 2008

Filed December 10, 2008

File No. 000-11412

Dear Mr. Anderson:

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

Sincerely,

Brian Cascio Accounting Branch Chief