

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549-4631

Mail Stop 4631

March 9, 2010

## via U.S. mail and facsimile

Mark O. Eisele, CFO Applied Industrial Technologies, Inc. 1 Applied Plaza Cleveland, Ohio 44115

**RE:** Applied Industrial Technologies, Inc.

Form 10-K for the Fiscal Year Ended June 30, 2009

**Filed August 19, 2009** 

Form 10-Q for the Fiscal Quarter Ended September 30, 2009 and

**December 31, 2009** 

**Definitive Proxy Statement on Schedule 14A** 

Filed September 4, 2009

File No. 1-2299

We have completed our review of your Form 10-K and related filings and have no further comments at this time.

If you have any further questions regarding our review of your filings, please direct them to Tracey Houser, Staff Accountant, at (202) 551-3736, or in her absence, me at (202) 551-3355, if you have questions regarding comments on the financial statements and related matters. For other comments, please contact Chambre Malone, Staff Attorney, at (202) 551-3262, or in her absence, Andrew Schoeffler, Senior Staff Attorney, at (202) 551-3748.

Sincerely,

Terence O'Brien Accounting Branch Chief