



DIVISION OF
CORPORATION FINANCE

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

January 27, 2014

Via E-mail

Mr. J. Peter Honeysett
President
Alternate Energy Holdings, Inc.
PO Box 894
Boise, ID 83701

**Re: Alternate Energy Holdings, Inc.
Form 8-K Item 4.01
Filed December 11, 2013
File No. 0-53451**

Dear Mr. Honeysett:

We issued comments to you on December 12, 2013. As of the date of this letter, these comments remain outstanding and unresolved. We expect you to provide a complete, substantive response to these comments by February 10, 2014.

If you do not respond, we will, consistent with our obligations under the federal securities laws, decide how we will seek to resolve material outstanding comments and complete our review of your filings and your disclosure. Among other things, we may decide to release publicly, through the agency's EDGAR system, all correspondence, including this letter, relating to the review of your filing, consistent with the staff's decision to release publicly comment letters and response letters relating to disclosure filings it has reviewed. You can find more information about the staff's decision to release filing correspondence at <http://www.sec.gov/divisions/corpfin/cfannouncements/edgarcorrespondence.htm>, <http://www.sec.gov/news/press/2004-89.htm> and <http://www.sec.gov/news/press/2005-72.htm>.

Please contact me at (202) 551-3743 or Terence O'Brien, Branch Chief, at (202) 551-3355 if you have any questions.

Sincerely,

/s/ Jenn Do

Jenn Do
Staff Accountant