



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

DIVISION OF  
CORPORATION FINANCE

November 21, 2011

Via facsimile

Mr. Efrain Rivera  
Senior Vice President, Chief Financial Officer and Treasurer  
Paychex, Inc.  
911 Panorama Trail South  
Rochester, NY 14625-2396

**Re: Paychex, Inc.**  
**Form 10-K for fiscal year ended May 31, 2011**  
**Filed July 15, 2011**  
**Definitive Proxy Statement on Schedule 14A**  
**Filed August 31, 2011**  
**File No. 0-11330**

Dear Mr. Rivera:

We have completed our review of your filings. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filings and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filings to be certain that the filings include the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ John Cash

John Cash  
Branch Chief