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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 4) \*

Paychex, Inc (Name of Issuer)

Common Stock (Title of Class of Securities)

704326107 (CUSIP Number)

December 31, 2010 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- [X] Rule 13d-1(b)
- [ ] Rule 13d-1(c)
- [ ] Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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- 1 NAMES OF REPORTING PERSONS
  I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)
  Capital World Investors \*\*
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5 SOLE VOTING POWER

14,652,991

SHARED VOTING POWER NUMBER OF NONE SHARES BENEFICIALL Y OWNED BY 7 SOLE DISPOSITIVE POWER EACH REPORTING 29,638,718 PERSON WITH: SHARED DISPOSITIVE POWER NONE AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 29.638.718 Beneficial ownership disclaimed pursuant to Rule 13d-4 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 8.2% 12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) \*\* A division of Capital Research and Management Company (CRMC) CUSIP: 704326107 Page 2 of 4 <page> SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549 Schedule 13G Under the Securities Exchange Act of 1934 Amendment No. 4 Name of Issuer: Item 1(a) Paychex, Inc Address of Issuer's Principal Executive Offices: Item 1(b) 911 Panorama Trail South Rochester, NY 14625-0397 Item 2(a) Name of Person(s) Filing: Capital World Investors Item 2(b) Address of Principal Business Office or, if none, Residence: 333 South Hope Street Los Angeles, CA 90071 Citizenship: N/A Item 2(c) Item 2(d) Title of Class of Securities: Common Stock CUSIP Number: Item 2(e) 704326107 If this statement is filed pursuant to sections 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

[X]

Ownership

Item 4

section 240.13d-1(b)(1)(ii)(E).

An investment adviser in accordance with

- (a) Amount beneficially owned:
- (b) Percent of class:
- (c) Number of shares as to which the person has:
- (i) Sole power to vote or to direct the vote:
- (ii) Shared power to vote or to direct the vote:
- (iii) Sole power to dispose or to direct the disposition of:
- (iv) Shared power to dispose or to direct the disposition of:

See page 2

Capital World Investors is deemed to be the beneficial owner of 29,638,718 shares or 8.2% of the 361,683,521 shares of Common Stock believed to be outstanding as a result of CRMC acting as investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940.

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- Item 5 Ownership of Five Percent or Less of a Class. If this
   statement is being filed to report the fact that as of the date
   hereof the reporting person has ceased to be the beneficial
   owner of more than five percent of the class of securities,
   check the following: [ ]

- Item 8 Identification and Classification of Members of the Group:  $\ensuremath{\mathrm{N/A}}$
- Item 9 Notice of Dissolution of Group: N/A
- Item 10 Certification

By signing below, I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

## Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 9, 2011

Signature: Robert W. Lovelace\*\*\*

Name/Title: Robert W. Lovelace - Senior Vice

President

Capital World Investors

\*\*\*By /s/ Donald H. Rolfe
Donald H. Rolfe
Attorney-in-fact

Signed pursuant to a Power of Attorney dated December 20, 2010 included as an Exhibit to Schedule 13G filed with the Securities and Exchange Commission by Capital World Investors on January 10, 2011 with respect to Georgia Gulf Corporation.