

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No. )\*

NAME OF ISSUER PAYCHEX, INC.  
TITLE OF CLASS OF SECURITIES Common  
CUSIP NUMBER 704326107

Check the following box if a fee is being paid with this statement.

( X )

(A fee is not required only if the filing person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the class of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class.) (See Rule 13d-7).

\* 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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CUSIP No. 704326107

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1. Name of reporting person  
S.S. or I.R.S. identification no. of above person

Marsh & McLennan Companies, Inc.  
36-2668272

2. Check the appropriate box if a member of a group\*

(a) ( )  
(b) ( )

3. SEC use only

4. Citizenship or place of organization

Delaware

5. Sole Voting Power

NONE

Number of shares beneficially owned by each Reporting person with

6. Shared Voting Power

NONE

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

NONE

9. Aggregate amount beneficially owned by each reporting person

NONE

10. Check box if the aggregate amount in row (9) includes certain shares\*

11. Percent of class represented by amount in row 9

NONE

12. Type of Reporting person\*

HC

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CUSIP No. 704326107

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1. Name of reporting person  
S.S. or I.R.S. identification no. of above person

Putnam Investments, Inc.  
04-2539558

2. Check the appropriate box if a member of a group\*

(a) ( )  
(b) ( )

3. SEC use only

4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

NONE

Number of  
shares  
beneficially  
owned by  
each  
Reporting  
person  
with

6. Shared Voting Power

121,744

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

2,019,939

9. Aggregate amount beneficially owned by each reporting person

2,019,939

10. Check box if the aggregate amount in row (9) includes certain shares\*

11. Percent of class represented by amount in row 9

6.8%

12. Type of Reporting person\*

HC

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CUSIP No. 704326107

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1. Name of reporting person  
S.S. or I.R.S. identification no. of above person

Putnam Investment Management, Inc.  
04-2471937

2. Check the appropriate box if a member of a group\*

(a) ( )  
(b) ( )

3. SEC use only

4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

NONE

Number of shares beneficially owned by each Reporting person with

6. Shared Voting Power

NONE

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

1,819,132

9. Aggregate amount beneficially owned by each reporting person

1,819,132

10. Check box if the aggregate amount in row (9) includes certain shares\*

11. Percent of class represented by amount in row 9

6.1%

12. Type of Reporting person\*

IA

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CUSIP No. 704326107

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1. Name of reporting person S.S. or I.R.S. identification no. of above person

The Putnam Advisory Company, Inc. 04-6187127

2. Check the appropriate box if a member of a group\*

(a) ( ) (b) ( )

3. SEC use only

4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

NONE

Number of shares beneficially owned by each Reporting person with

6. Shared Voting Power

121,744

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

200,807

9. Aggregate amount beneficially owned by each reporting person

200,807

10. Check box if the aggregate amount in row (9) includes certain shares\*

11. Percent of class represented by amount in row 9

-----  
 12. Type of Reporting person\*  
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IA  
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SECURITIES AND EXCHANGE COMMISSION  
 Washington, D. C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
 (Amendment No. )

Check the following (box) if a fee is being paid with this statement

( X )

Item 1(a) Name of Issuer: PAYCHEX, INC.

Item 1(b) Address of Issuer's Principal Executive Offices:  
 911 Panorama Trail South, Rochester, NY 14625

Item 2(a) Item 2(b)

Name of Person Filing: Address or Principal Office or,  
 if none, Residence:

Putnam Investments, Inc. One Post Office Square  
 ("PI") Boston, Massachusetts 02109  
 on behalf of itself and:

\*Marsh & McLennan Companies, Inc. 1166 Avenue of the Americas  
 ("MMC") New York, NY 10036

Putnam Investment Management, Inc. One Post Office Square  
 ("PIM") Boston, Massachusetts 02109

The Putnam Advisory Company, Inc. One Post Office Square  
 ("PAC") Boston, Massachusetts 02109

Item 2(c) Citizenship: PI and PIM are corporations organized  
 under Massachusetts law. The citizenship of other  
 persons identified in Item 2(a) is designated as  
 follows:

- \* Corporation - Delaware law
- \*\* Voluntary association known as Massachusetts  
 business trust - Massachusetts law

Item 2(d) Title of Class of Securities: Common

Item 2(e) Cusip Number: 704326107

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Item 3. If this statement is filed pursuant to Rules 13d-1(b), or  
 13d-2(b), check whether the person filing is a:

- (a) ( ) Broker or Dealer registered under Section 15 of the Act
- (b) ( ) Bank as defined in Section 3(a)(6) of the Act
- (c) ( ) Insurance Company as defined in Section 3(a)(19) of the  
 Act
- (d) ( ) Investment Company registered under Section 8 of the  
 Investment Company Act
- (e) ( X ) Investment Adviser registered under Section 203 of the  
 Investment Advisers Act of 1940
- (f) ( ) Employee Benefit Plan, Pension Fund which is subject to  
 the provisions of the Employee Retirement Income Security  
 Act of 1974 or Endowment Fund; see (Section  
 240.13d-1(b)(1)(ii)(F))
- (g) ( X ) Parent Holding Company, in accordance with Section  
 240.13d-1(b)(ii)(G))
- (h) ( ) Group, in accordance with Section 240.13d-1(b)(1)(ii)(H))

<TABLE>  
<CAPTION>

Item 4.  
Ownership.

	M&MC	PI	PIM	PAC
	-----	-----	-----	-----
<C> <C>	<C>	<C>	<C>	<C>
(a) Amount Beneficially Owned:	none	2,019,939	1,819,132	200,807
(b) Percent of Class:	none	6.8%	6.1%	0.7%
(c) Number of shares as to which such person has:				
(1) sole power to vote or to direct the vote; (but see Item 7)	none	none	none	none
(2) shared power to vote or to direct the vote; (but see Item 7)	none	121,744	none	121,744
(3) sole power to dispose or to direct the disposition of; (but see Item 7)	none	none	none	none
(4) shared power to dispose or to direct the disposition of; (but see Item 7)	none	all	all	all

</TABLE>

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 thereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following ( ).

Item 6. Ownership of More than Five/Ten Percent on Behalf of Another Person:

No persons other than the persons filing this Schedule 13G have an economic interest in the securities reported on which relates to more than five percent of the class of securities. Securities reported on this Schedule 13G as being beneficially owned by M&MC and PI consist of securities beneficially owned by subsidiaries of PI which are registered investment advisers, which in turn include securities beneficially owned by clients of such investment advisers, which clients may include investment companies registered under the Investment Company Act and/or employee benefit plans, pension funds, endowment funds or other institutional clients.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

PI, which is a wholly-owned subsidiary of M&MC, wholly owns two registered investment advisers: Putnam Investment Management, Inc. and The Putnam Advisory Company, Inc. Pursuant to Rule 13d-4, M&MC and PI declare that the filing of this Schedule 13G shall not be deemed an admission by either or both of them that they are, for the purposes of Section 13(d) or 13(g) the beneficial owner of any securities covered by this Section 13G, and further state that neither of them have any power to vote or dispose of, or direct the voting or disposition of, any of the securities covered by this Schedule 13G.

Item 8. Identification and Classification of Members of the Group:

Not applicable.

Item 9. Notice of Dissolution of Group:

Not applicable.

Item 10. Certification.

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

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.

PUTNAM INVESTMENTS, INC.

BY: -----

Signature

Name/Title: Frederick S. Marius  
Assistant Vice President and Associate Counsel

Date: January 30, 1995

For this and all future filings, reference is made to Power of Attorney dated November 9, 1992, with respect to duly authorized signatures on behalf of Marsh & McLennan Companies, Inc., Putnam Investments, Inc., Putnam Investment Management, Inc., The Putnam Advisory Company, Inc. and any Putnam Fund wherever applicable.

For this and all future filings, reference is made to an Agreement dated June 28, 1990, with respect to one filing of Schedule 13G on behalf of said entitites, pursuant to Rule 13d-1(f)(1).