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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment)

NAME OF ISSUER

Number of shares

Paychex Inc. (nasd)

TITLE OF CLASS OF SECURITIES

Common

CUSIP NUMBER

704326107

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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13G

CUS	CUSIP No. 704326107 Page		je 2	of 10	Pages
1.	Name of reporting person S.S. or I.R.S. identification no.	of above perso	n		
	Marsh & McLennan Companies, Inc. 36-2668272				
2.	Check the appropriate box if a me (a)() (b)()	ember of a group	,*		
3.	SEC use only				
4.	Citizenship or place of organizat	ion			
	Delaware				
		5.	Sc	ole Vo	ting
	Pov	ver			

NONE

) 6. Shared Voting Power

Beneficially) Owned by each) NONE Reporting) Person with:							
rerson with:) 7. Sole Dispositive Power NONE						
	8. Shared Dispositive Power						
Aggregate amount beneficially NONE	owned by each reporting person						
NONE							
O. Check box if the aggregate amount in row (9) excludes certain shares*							
11. Percent of class represented by amount in row 9							
NONE							
12. Type of Reporting person*							
1	3G						
CUSIP No. 704326107	Page 3 of 10 Pages						
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)() (b)()	a member of a group*						
3. SEC use only							
4. Citizenship or place of or	ganization						
Massachusetts							
massachusetts							
	5. Sole Voting Power NONE						
Number of shares)							
Beneficially owned by each)) 6. Shared Voting Power						
Reporting) Person with:)	299,250						
	7. Sole Dispositive Power						
	NONE						
	8. Shared Dispositive Power						
	5,078,612						

9. Aggregate amount beneficially owned by each reporting person $\,$

10.	Check box if the aggree certain shares*	gate amount in row (9) excludes				
11.	Percent of class represented by amount in row 9					
12.	Type of Reporting person*					
	HC					
		13G				
CUSIP I	No. 704326107	Page 4 of 10 Pages				
1. Name of reporting person S.S. or I.R.S. identification no. of above person						
	Putnam Investment Manag	gement, Inc.				
2.	Check the appropriate box if a member of a group* (a)() (b)()					
 3.	SEC use only					
4. C:	itizenship or place of or	rganization				
	assachusetts 					
		5. Sole Voting				
		NONE				
Number	of shares)					
Benefic Owned l Report:	by each)) 6. Shared Voting Power				
_	with:) -	7. Sole Dispositive Power				
		NONE				
	-	8. Shared Dispositive Power				
		4,526,562				
9.	 Aggregate amount benefi	icially owned by each reporting person				
	4,526,562					
10.	Check box if the aggree certain shares*	gate amount in row (9) excludes				
11.	Percent of class repres	sented by amount in row 9				
12.	Type of Reporting perso	on*				
	IA					

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CUSIP No. 704326107
                                         Page 5 of 10 Pages
1. Name of reporting person
      S.S. or I.R.S. identification no. of above person
      The Putnam Advisory Company, Inc.
      04-6187127
    Check the appropriate box if a member of a group*
       (a)( ) (b)( )
     SEC use only
Citizenship or place of organization
           Massachusetts
                                        5. Sole Voting
                             Power
                             NONE
Number of
           shares )
Beneficially
                             ) 6. Shared Voting Power
Owned by each )
               )
Reporting
                            299,250
Person with: )
                                        7. Sole
                             Dispositive Power
                            NONE
                                       8. Shared
                            Dispositive Power
                             552,050
9. Aggregate amount beneficially owned by each reporting person
            552,050
10. Check box if the aggregate amount in row (9) excludes certain
shares*
11. Percent of class represented by amount in row 9
   NONE
12. Type of Reporting person*
- -----
              SECURITIES AND EXCHANGE COMMISSION
                  Washington, D. C. 20549
                       SCHEDULE 13G
           Under the Securities Exchange Act of 1934
Item 1(a)
           Name of Issuer:
                                 Paychex Inc. (nasd)
Item 1(b)
           Address of Issuer's Principal Executive Offices:
911 Panorama Trail South, Rochester, NY 14625-0397,
                                 Item 2(b)
Item 2(a)
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Address or

Name of Person Filing:

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

New York, NY 10036 ("MMC")

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

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

Item 2(c) Citizenship: PI, PIM and PAC 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
-) Investment Company registered under Section 8 of the (d) (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)

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<TABLE><CAPTION> Ttem 4. Ownership. <S>

<C> <C> <C> <C> PIM* PAC M&MC PΙ

(Parent holding (Investment advisers (Parent co & subsidiaries of PI) to PIM and PAC) company to PI)

(Parent company

(a)	Amount Beneficially Owned:	NONE	4,526,562 +	552,050 =	5,078,612
(b)	Percent of Class:	NONE	4%	+ NONE =	4%
(c)	Number of shares as to which such person has	s:			
(1)	<pre>sole power to vote or to direct the vote; (but see Item 7)</pre>	NONE	NONE	NONE	NONE
(2)	shared power to vote or to direct the vote; (but see Item 7)	NONE	NONE	299 , 250	299,250
(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

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</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 (X).

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., which is the investment adviser to the Putnam family of mutual funds and The Putnam Advisory Company, Inc., which is the investment adviser to Putnam's institutional clients. Both subsidiaries have dispository power over the shares as investment managers, but each of the mutual fund's trustees have voting power over the shares held by each fund, and The Putnam Advisory Company, Inc. has shared voting power over the shares held by the institutional clients. 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.

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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.

/s/Frederick S. Marius
BY: -----Signature

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

Date: January 16, 1998

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 entities, pursuant to Rule 13d-1(f)(1).

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