UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM 11-K

(Mark One):

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ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2023

OR

TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from

Commission file number 0-11330

to

Paychex, Inc. 401(k) Incentive Retirement Plan (Full title of the Plan)

Paychex, Inc. 911 Panorama Trail South Rochester, NY 14625 (Name of issuer of the securities held pursuant to the Plan and the address of its principal executive office)

Index to Financial Statements, Schedule and Exhibit

Signatures	Page No. 1
Financial Statements	
Report of Independent Registered Public Accounting Firm	2
Statements of Net Assets Available for Benefits as of December 31, 2023 and 2022	3
Statements of Changes in Net Assets Available for Benefits for the Years Ended December 31, 2023 and 2022	4
Notes to Financial Statements	5
Supplemental Schedule	
Schedule H, Line 4i – Schedule of Assets (Held at End of Year)	11
Exhibit	
23.1 - Consent of Independent Registered Public Accounting Firm for report dated June 10, 2024	

SIGNATURES

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the Plan Committee has duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

June 10, 2024:

PAYCHEX, INC. 401(k) INCENTIVE RETIREMENT PLAN (Name of Plan)

/s/ David K. Vogt

David Vogt 401(k) Incentive Retirement Plan Committee Member

Report of Independent Registered Public Accounting Firm

To the Paychex, Inc. 401(k) Incentive Retirement Plan Committee and Participants of the Paychex, Inc. 401(k) Incentive Retirement Plan

Opinion on the Financial Statements

We have audited the accompanying statements of net assets available for benefits of Paychex, Inc. 401(k) Incentive Retirement Plan (the Plan) as of December 31, 2023 and 2022, the related statements of changes in net assets available for benefits for the years then ended and the related notes to the financial statements (collectively, the financial statements). In our opinion, the financial statements present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2023 and 2022, and the changes in net assets available for benefits for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on the Plan's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Plan in accordance with U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Plan has determined it is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Supplemental Information

The supplemental information in the accompanying schedule of assets (held at end of year) as of December 31, 2023 has been subjected to audit procedures performed in conjunction with the audit of the Plan's financial statements. The supplemental information is presented for the purpose of additional analysis and is not a required part of the financial statements but includes supplemental information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. The supplemental information is the responsibility of the Plan's management. Our audit procedures included determining whether the supplemental information presented in the supplemental and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental information. In forming our opinion on the supplemental information in the accompanying schedule, we evaluated whether the supplemental information, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the supplemental information in the accompanying schedule is fairly stated in all material respects in relation to the financial statements as a whole.

/s/ Insero & Co. CPAs, LLP

Insero & Co. CPAs, LLP Certified Public Accountants

We have served as the Plan's auditor since 2013.

Rochester, New York June 10, 2024



PAYCHEX, INC. 401(k) INCENTIVE RETIREMENT PLAN STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS In Thousands

As of December 31,	2023	2022
Assets		
Cash	\$ 4,386	\$ 5,907
Investments:		
Paychex ESOP Stock Fund	222,555	220,109
American Funds EuroPacific Growth Fund	64,294	54,510
ClearCourse Group Variable Annuity	4,254	4,905
Fidelity Balanced Fund — Class K	78,848	68,416
Fidelity Freedom 2005 — 2065 Funds — Class K	537,595	432,713
Fidelity Freedom Income Fund — Class K	2,726	2,797
Fidelity Government Money Market Fund	61,624	62,233
Fidelity International Index Fund	79,284	65,082
Fidelity Total Market Index Fund	58,769	45,353
Fidelity U.S. Bond Index Fund	106,310	91,601
Fidelity 500 Index Fund	226,561	208,863
Glenmede Small-Cap Equity Portfolio Fund	44,510	46,360
Harbor Capital Appreciation Fund	-	119,556
Harbor Capital Appreciation CIT Class 4 Fund	197,135	-
Invesco Growth and Income Fund	72,853	48,861
MFS Midcap Value Fund	60,288	50,468
Vanguard Short-Term Bond Index Fund	21,748	20,462
Vanguard S&P Mid-Cap 400 Index Fund	84,323	74,900
Vanguard S&P Small-Cap 600 Index Fund	51,109	45,681
Total investments	1,974,786	1,662,870
Notes receivable from participants	26,522	21,693
Net assets available for benefits	\$ 2,005,694	\$ 1,690,470

See accompanying notes to financial statements.

PAYCHEX, INC. 401(k) INCENTIVE RETIREMENT PLAN STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS In Thousands

Year ended December 31,	2023	2022
Contributions:		
Participant	\$ 104,108	\$ 100,102
Participant rollovers	13,853	12,151
Employer, net of forfeitures	38,188	35,785
Total contributions	156,149	148,038
Investment income/(loss):		
Dividends and interest income	50,517	81,544
Net realized and unrealized appreciation/(depreciation) in fair value of investments	259,180	(426,551)
Total investment income/(loss)	309,697	(345,007)
Interest income on notes receivable from participants	1,470	1,024
Benefits paid to participants	(152,092)	(144,749)
Change in net assets available for benefits	315,224	(340,694)
Net assets available for benefits at beginning of year	1,690,470	2,031,164
Net assets available for benefits at end of year	\$ 2,005,694	\$ 1,690,470

4

See accompanying notes to financial statements.

PAYCHEX, INC. 401(k) INCENTIVE RETIREMENT PLAN NOTES TO FINANCIAL STATEMENTS December 31, 2023 and 2022

NOTE A. PLAN DESCRIPTION

The following brief description of the Paychex, Inc. (the "Company" or "Paychex") 401(k) Incentive Retirement Plan (the "Plan") is provided for general information purposes only. More complete information regarding the Plan's provisions may be found in the Plan Document and Summary Plan Description.

General: The Plan is a defined contribution plan qualified under Sections 401(a) of the Internal Revenue Code (the "Code"), which includes provisions under Section 401(k) allowing an eligible participant to direct the employer to contribute a portion of the participant's compensation to the Plan on a pre-tax and/or after-tax basis through payroll deductions. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended ("ERISA"). The Plan was established on July 1, 1984 and has been restated or amended several times, the latest being in May 2022, to make certain changes and enhancements to the Plan.

The Plan operates in part as an employee stock ownership plan ("ESOP"), which is designed to comply with Section 4975(e) and the regulations under the Code. It is not currently intended that the Plan be a leveraged ESOP, although the Plan permits the ESOP to borrow money to purchase ESOP stock if the employer should so elect at some future date. As of December 31, 2023 and 2022, all shares of ESOP stock are allocated to participant accounts. Under this ESOP feature, participants are able to receive dividends on their shares of Paychex common stock in the form of cash or have them reinvested into the Paychex ESOP Stock Fund ("ESOP Fund").

Plan Administration: The Plan is administered by the Paychex, Inc. 401(k) Incentive Retirement Plan Committee (the "Plan Committee"), which is appointed by the Vice President, Chief Human Resources Officer and approved by the Board of Directors of Paychex. The Plan's trustee and record keeper is Fidelity Management Trust Company ("Fidelity"), who is also the trustee for the ESOP Fund. Fidelity was responsible for the custody and management of the Plan's assets for the periods noted.

Plan Amendments: The Plan was not amended in 2023. The Plan was amended once during 2022 to accommodate the transfer of certain assets and liabilities from an immaterial business acquisition.

Plan Acquisitions: There were no material acquisitions in 2023 or 2022.

Eligible Employees: All new employees of the Company and its participating subsidiaries are eligible to participate in the salary deferral portion of the Plan immediately. Employees must be employed for one year in which a minimum of 1,000 hours have been worked to be eligible to receive a Company matching contribution, when such matching contribution is in effect.

Contributions: Employees may contribute, on a pre-tax basis and/or on an after-tax basis, from 1% up to 50% of their compensation through payroll deductions in increments of 1%, subject to the limitations established by the Code. For the Roth 401(k), employees may only contribute on an after-tax basis, subject to these same limitations. The maximum allowable annual employee contribution to the Plan was \$22,500 and \$20,500 for the calendar years ended December 31, 2023 and 2022, respectively. The Plan Committee may establish for any Plan year a contribution percentage limit for highly compensated employees that is less than 50%. Employees may also contribute amounts representing rollover distributions from other qualified defined benefit or defined contribution plans or individual retirement accounts.

The Company provides a matching contribution in the amount of 100% of the first 3% and 50% on the next 2% of eligible pay that an employee contributes to the Plan for a total matching contribution of 4%. The Company may also elect to make an additional discretionary contribution to the Plan but has not done so for 2023 and 2022.

Additionally, participants who are age 50 or older by the end of the calendar year are allowed to make an additional "catch-up" contribution on a pre-tax basis and/or on an after-tax basis. For the Roth 401(k), participants' "catch-up" contributions can only be made on an after-tax basis. This contribution was limited to \$7,500 and \$6,500 for the calendar years ended December 31, 2023 and 2022, respectively. The "catch-up" contributions are included in the match calculation, when such matching contribution is in effect, if the employee's regular contribution is less than the allowable percentage of eligible pay.

Vesting: Participants are fully vested as to their elective contributions, rollover contributions, and company matching contributions, as well as any earnings or losses on those amounts. Within the ESOP Fund, dividends received are fully vested, regardless of years of service.

Participant Accounts: The trustee maintains an account for each participant, including participant-directed allocations to each investment fund. Each participant's account is credited with the participant's contribution and allocations of any employer contribution and Plan earnings, less loans and withdrawals. The investments under the Plan are 100% participant-directed. Plan participants can fully diversify their portfolios by choosing from any or all investment fund choices in the Plan. Transfers in and out of investment funds, including the ESOP Fund, are not restricted, with the exception of certain restricted trading periods for individuals designated as insiders as specified in the Paychex Insider Trading Policy. The Company matching contributions follow the same fund elections as the employee compensation deferrals.

Investment Options: As of December 31, 2023, participants may direct contributions in the following investment options:

Paychex ESOP Stock Fund American Funds EuroPacific Growth Fund Fidelity Balanced Fund — Class K Fidelity Freedom 2005 — 2065 Funds — Class K Fidelity Freedom Income Fund — Class K Fidelity Government Money Market Fund Fidelity International Index Fund Fidelity Total Market Index Fund Fidelity U.S. Bond Index Fund Fidelity 500 Index Fund Glenmede Small-Cap Equity Portfolio Fund Harbor Capital Appreciation CIT Class 4 Fund Invesco Growth and Income Fund MFS Midcap Value Fund Vanguard Short-Term Bond Index Fund Vanguard S&P Mid-Cap 400 Index Fund Vanguard S&P Small-Cap 600 Index Fund

Participants may choose to change their investment option choices and how their contributions are allocated to each fund chosen at any time. The Plan Committee regularly reviews performance, fees, and other key indicators of all investment options and may enter or exit funds at its discretion with the exception of the ESOP Fund.

ClearCourse Group Variable Annuity ("ClearCourse") is an investment option that provides both guaranteed income at retirement with additional market growth opportunity based on the market performance of its underlying portfolio and it has no redemption restrictions. ClearCourse was frozen to new contributions and transfers into the fund in 2012.

Forfeited Accounts: Forfeited non-vested assets are used to reduce future employer contributions, when available. Approximately \$1,000 and \$7,000 in forfeitures were used to reduce employer contributions in 2023 and 2022, respectively. Forfeited balances not yet applied to reduce employer contributions as of December 31, 2023 and 2022 were not material to the financial statements.

Participant Loans: The Plan allows participants to borrow from a minimum of \$1,000 up to a maximum equal to the lesser of 50% of their vested account balance or \$50,000, reduced by the highest outstanding loan balance in the previous twelve months. Only one loan may be outstanding at any time. The rate of interest is the United States ("U.S.") prime lending rate plus 1% at the time the loan is disbursed. Payroll deductions are required to repay the principal and interest on the loan generally within four and one-half years, except for loans used for the purchase of a principal residence, which are required to be repaid generally within nine and one-half years. Participant loans are subject to a one-time, non-refundable loan origination fee of \$75, which is deducted from the participant's account.

Withdrawals: Withdrawals for financial hardship are permitted provided they are for a significant and immediate financial need, meet the applicable hardship criteria as outlined in the Code, and the distribution is necessary to satisfy that need. Before requesting a hardship withdrawal, participants must exhaust all other eligible withdrawal options available in the Plan. One hardship withdrawal may be taken each calendar year. For actively employed Plan participants, the Plan also allows for: partial withdrawals of vested balances at age 59¹/2; withdrawals of rollover contributions made prior to April 15, 2002; and withdrawals of dividends on the participant's shares of Paychex common stock in the ESOP Fund in the form of cash, if desired.

Payment of Benefits: Upon separation from employment, at retirement, or reaching the age of 59¹/2, a participant may elect to receive either a lump-sum amount equal to the value of the participant's vested interest in their account, or annual installments over a fixed period of time.

Participants in ClearCourse may elect to receive their vested interest as follows: full lifetime retirement income guarantee at the age of 65 or older; reduced lifetime retirement income guarantee between the ages of 55 and 64; and forfeiture of the lifetime retirement income guarantee prior to age 55.

Voting and Tender Offer Rights on ESOP Stock: Each participant in the ESOP Fund is entitled to exercise voting rights on shares held in their account and also direct the ESOP trustee to tender their shares of ESOP Stock if an offer is made to purchase such shares. If the participant does not vote or indicate their preference with respect to a tender offer, the trustee will vote the participant's shares and unallocated shares in the same proportion as the shares for which the trustee has received instructions.

Plan Termination: Although it has not expressed any intent to do so, the Company has the right under the Plan to permanently discontinue contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants will become fully vested in their account balances.

NOTE B. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting: The financial statements of the Plan have been prepared on the accrual basis of accounting in accordance with U.S. generally accepted accounting principles ("GAAP").

Use of Estimates: The preparation of financial statements in conformity with GAAP requires the Plan Committee to make estimates, judgements and assumptions that affect the amounts reported in the financial statements and accompanying notes during the reporting period. Actual amounts and results could differ from these estimates.

Investment Valuation and Income Recognition: Investments are reported at fair value or net asset value ("NAV"). Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. NAV is used as a practical expedient to estimate fair value and is based on the underlying value of net assets owned by the applicable investment fund. See Note C, Fair Value Measurements, for further discussion.

Purchases and sales of securities are recorded on a trade-date basis. Net realized gains or losses upon the sale of investments are based on their average cost. Dividends are recorded on the ex-dividend date. Interest income is recorded on the accrual basis.

Contributions: Contributions from the Company are accrued in accordance with the terms of the Plan. Participant contributions are recorded in the period the Company makes corresponding payroll deductions.

Notes Receivable from Participants: The principal amount of loans plus any unpaid accrued interest is reported as notes receivable from participants on the Statements of Net Assets Available for Benefits. Loans to participants have various maturity dates between January 2024 and December 2034 and interest rates range from 4.25% to 9.5%. Interest earned is recorded on an accrual basis as interest income on notes receivable from participants in the Statements of Changes in Net Assets Available for Benefits.

Payment of Benefits: Benefits are recorded when paid.

Administrative Expenses: Costs related to administering the Plan may be paid by the Company or the Plan. The Company paid approximately \$232,000 and \$357,000 in 2023 and 2022, respectively, in administrative expenses.

Recently Adopted Accounting Pronouncements: There were no recently adopted accounting pronouncements during 2023.

Recently Issued Accounting Pronouncements: Recent accounting pronouncements issued by the Financial Accounting Standards Board ("FASB") (including technical corrections to the FASB's Accounting Standards Codification), and the American Institute of Certified Public Accountants did not, or are not, expected to have a material effect on the Plan's net assets available for benefits or changes in net assets available for benefits.

Subsequent Events: The Plan has evaluated subsequent events for potential recognition and/or disclosure through the date of issuance of these financial statements. No significant subsequent events have occurred requiring adjustments to the financial statements or disclosures.

NOTE C. FAIR VALUE MEASUREMENTS

The carrying value of cash approximates its fair value due to the short maturity of this financial instrument. Notes receivable from participants are valued at the principal amount plus accrued interest, which approximates fair value. Mutual funds and Paychex common stock, which is the sole investment in the ESOP Fund, are stated at their approximate fair value based on quoted market prices in active markets.

Collective investment trusts ("CITs") are valued at the NAV of the respective trust, which approximates fair value. There are no redemption restrictions or unfunded commitments in the CITs offered under the Plan.

The Annuity Fund, ClearCourse, is valued by Genworth Life and Annuity Insurance Company using the quoted market price of the underlying investments less applicable ClearCourse asset charges. The underlying investments are in the Janus Henderson Balanced T Share Class Fund.

The accounting standards related to fair value measurements include a hierarchy for information and valuations used in measuring fair value that is broken down into three levels based on reliability, as follows:

-Level 1 valuations are based on quoted prices in active markets for identical instruments that the Plan has the ability to access.

•Level 2 valuations are based on quoted prices for similar, but not identical, instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; or other significant observable inputs besides quoted prices.

•Level 3 valuations are based on information that is unobservable and significant to the overall fair value measurement.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The Plan's financial assets measured at fair value on a recurring basis were as follows:

	December 31, 2023							
In Thousands		Carrying value Fair value)		Quoted prices in active markets (Level 1)		Significant other observable inputs (Level 2)	unob in	ificant servable puts evel 3)
Mutual funds	\$	1,550,842	\$	1,550,842	\$	(Level 2)	(L) \$	
Paychex common stock	Ψ	222,555	Ψ	222,555	Ψ		Ψ	_
Annuity fund		4,254		—		4,254		_
CIT measured at NAV ⁽¹⁾		197,135						
Total investments at fair value	\$	1,974,786						

		December 31, 2022						
				Quoted	Sig	nificant		
				prices in	C	other	Signif	ficant
		Carrying		active	obs	ervable	unobse	ervable
		value		markets	iı	iputs	inp	uts
In Thousands	(1	Fair value)		(Level 1)	(L	evel 2)	(Lev	rel 3)
Mutual funds	\$	1,437,856	\$	1,437,856	\$		\$	—
Paychex common stock		220,109		220,109		_		_
Annuity fund		4,905		—		4,905		
Total investments at fair value	\$	1,662,870						

⁽¹⁾ In accordance with Accounting Standards Codification subtopic 820-10, investments in CITs that are measured at fair value using the NAV per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. The fair value amounts of the CITs presented in the fair value tables are intended to permit reconciliation to balances presented in the Statements of Net Assets Available for Benefits.

NOTE D. RISKS AND UNCERTAINTIES

The Plan provides certain investments that are exposed to various risks, such as interest rate risk, credit risk, and market volatility risk. The Plan attempts to limit these risks by authorizing and offering participants a broad range of investment options that are invested in high quality securities or are offered and administered by reputable and known investment and insurance companies. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in values of investment securities will occur in the near term, and such changes could materially affect the amounts reported in the Statements of Net Assets Available for Benefits and of the Statements of Changes in Net Assets Available for Benefits.

The Plan's exposure to a concentration of risk is limited by the diversification of investments across 29 participant-directed fund elections. Additionally, the investments within each participant-directed fund election are further diversified into varied financial instruments, with the exception of the ESOP Fund, which invests in a single security and cash.

NOTE E. RELATED PARTY TRANSACTIONS

The Plan's holdings of Paychex common stock qualify as party-in-interest transactions. As of December 31, 2023, the Plan held 1,868,481 shares of Paychex common stock at a fair market value of \$222,554,772. As of December 31, 2022, the Plan held 1,904,717 shares of Paychex common stock at a fair market value of \$220,109,097.

Certain Plan investments are managed by Fidelity. Fidelity serves as trustee, recordkeeper, and custodian of the Plan and, therefore, transactions involving these investments qualify as party-in-interest transactions. The Plan allows participants to borrow from their vested account balance and notes receivable from participants also qualify as party-in-interest transactions. Costs related to administering the Plan are generally paid by the Company. Refer to Note B, Summary of Significant Accounting Policies, for additional information.

NOTE F. TAX STATUS

The Plan received a determination letter from the Internal Revenue Service ("IRS") dated December 1, 2017, stating that the Plan, and amendments through January 16, 2017, is qualified under Section 401(a) and Section 4975(e) of the Code and, therefore, the related trust is exempt from taxation. Once qualified, the Plan is required to operate in conformity with the Code to maintain its qualification. The Plan Committee believes the Plan is being operated in compliance with the applicable requirements of the Code and, therefore, believes that the Plan, as amended, is qualified and the related trust is tax exempt.

The preparation of financial statements in conformity with U.S. GAAP requires the Plan Committee to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS.

The Plan Committee has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2023, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. Therefore, the Plan has recognized no interest or penalties related to uncertain tax positions. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

NOTE G. RECONCILIATION OF FINANCIAL STATEMENTS TO IRS FORM 5500

The following is a reconciliation between the net assets available for benefits as reported in the financial statements to the net assets available for benefits as reported in IRS Form 5500 as of:

	December 31,			
In Thousands	2023		2022	
Net assets available for benefits – financial statements	\$ 2,005,694	\$	1,690,470	
Less: deemed distributions – defaulted loans	359		319	
Net assets available for benefits – IRS Form 5500	\$ 2,005,335	\$	1,690,151	

SCHEDULE OF ASSETS (HELD AT END OF YEAR) (SCHEDULE H, LINE 4i – FORM 5500) PAYCHEX, INC. 401(k) INCENTIVE RETIREMENT PLAN EIN-16-1124166 **PLAN 001** December 31, 2023

(Dollars, Units, and Shares in Thousands)

	(Donars, Onits, and Shares in The	Susands)	
Identity of	Description of Investment Including Maturity		
Party	Date, Rate of Interest, Collateral, Par or	Units/	Current
Involved	Maturity Value	Shares	Value
Fidelity*	Cash	-	\$ 4,386
Fidelity*	Paychex, Inc. Common Stock	1,868	222,555
Fidelity*	American Funds EuroPacific Growth Fund	1,175	64,294
Fidelity*	ClearCourse Group Variable Annuity	167	4,254
Fidelity*	Fidelity Balanced Fund — Class K	2,928	78,848
Fidelity*	Fidelity Freedom 2005 Fund — Class K	138	1,513
Fidelity*	Fidelity Freedom 2010 Fund — Class K	90	1,223
Fidelity*	Fidelity Freedom 2015 Fund — Class K	284	3,170
Fidelity*	Fidelity Freedom 2020 Fund — Class K	863	12,095
Fidelity*	Fidelity Freedom 2025 Fund — Class K	2,766	36,147
Fidelity*	Fidelity Freedom 2030 Fund — Class K	4,000	66,200
Fidelity*	Fidelity Freedom 2035 Fund — Class K	4,940	71,673
Fidelity*	Fidelity Freedom 2040 Fund — Class K	8,377	87,877
Fidelity*	Fidelity Freedom 2045 Fund — Class K	7,523	90,722
Fidelity*	Fidelity Freedom 2050 Fund — Class K	6,819	83,263
Fidelity*	Fidelity Freedom 2055 Fund — Class K	3,707	52,415
Fidelity*	Fidelity Freedom 2060 Fund — Class K	1,988	25,819
Fidelity*	Fidelity Freedom 2065 Fund — Class K	460	5,478
Fidelity*	Fidelity Freedom Income Fund — Class K	262	2,726
Fidelity*	Fidelity Government Money Market Fund	61,624	61,624
Fidelity*	Fidelity International Index Fund	1,674	79,284
Fidelity*	Fidelity Total Market Index Fund	446	58,769
Fidelity*	Fidelity U.S. Bond Index Fund	10,193	106,310
Fidelity*	Fidelity 500 Index Fund	1,369	226,561
Fidelity*	Glenmede Small-Cap Equity Portfolio Fund	1,316	44,510
Fidelity*	Harbor Capital Appreciation CIT Class 4 Fund	14,506	197,135
Fidelity*	Invesco Growth and Income Fund	3,585	72,853
Fidelity*	MFS Midcap Value Fund	1,958	60,288
Fidelity*	Vanguard Short-Term Bond Index Fund	2,153	21,748
Fidelity*	Vanguard S&P Mid-Cap 400 Index Fund	225	84,323
Fidelity*	Vanguard S&P Small-Cap 600 Index Fund	128	51,109
Participants *	Participant loans **	-	26,522
			\$ 2,005,694

* Represents party-in-interest
** Loans to participants have various maturity dates between January 2024 and December 2034 (interest at 4.25% to 9.5%).

EXHIBIT 23.1 - Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in this Registration Statement (No. 333-84055) on Form S-8 of Paychex, Inc. of our report dated June 10, 2024, relating to our audit of the financial statements and supplemental schedule of the Paychex, Inc. 401(k) Incentive Retirement Plan, which appears in this Annual Report on Form 11-K of the Paychex, Inc. 401(k) Incentive Retirement Plan for the year ended December 31, 2023.

/s/ Insero & Co. CPAs, LLP

Insero & Co. CPAs, LLP Certified Public Accountants

Rochester, New York June 10, 2024