
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

(Rule 13d-101)

**INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO § 240.13d-1(a) AND AMENDMENTS THERETO FILED
PURSUANT TO § 240.13d-2(a)**

**Under the Securities Exchange Act of 1934
(Amendment No. 6)***

Automatic Data Processing, Inc.

(Name of Issuer)

Common Stock, par value \$0.10 per share
(Title of Class of Securities)

053015103

(CUSIP Number)

Steve Milankov, Esq.
Pershing Square Capital Management, L.P.
888 Seventh Avenue, 42nd Floor
New York, New York 10019
(212) 813-3700

With a copy to:

Richard M. Brand, Esq.
Cadwalader, Wickersham & Taft LLP
One World Financial Center
New York, New York 10281
(212) 504-6000

(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

August 16, 2018

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

* 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 disclosures provided in a prior cover page.

The information required on 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*).

1	NAME OF REPORTING PERSON Pershing Square Capital Management, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (SEE INSTRUCTIONS) OO (See Item 3)	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER NONE
	8	SHARED VOTING POWER 21,304,500
	9	SOLE DISPOSITIVE POWER NONE
	10	SHARED DISPOSITIVE POWER 21,304,500
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 21,304,500	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input checked="" type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 4.9%*	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IA	

* This calculation is based on 438,082,756 shares of Common Stock outstanding as of July 31, 2018 as reported in the Issuer's Annual Report on Form 10-K filed on August 3, 2018 for the calendar year ended June 30, 2018.

1	NAME OF REPORTING PERSON PS Management GP, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (SEE INSTRUCTIONS) OO (See Item 3)	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER NONE
	8	SHARED VOTING POWER 21,304,500
	9	SOLE DISPOSITIVE POWER NONE
	10	SHARED DISPOSITIVE POWER 21,304,500
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 21,304,500	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input checked="" type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 4.9%*	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

* This calculation is based on 438,082,756 shares of Common Stock outstanding as of July 31, 2018 as reported in the Issuer's Annual Report on Form 10-K filed on August 3, 2018 for the calendar year ended June 30, 2018.

1	NAME OF REPORTING PERSON William A. Ackman	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (SEE INSTRUCTIONS) OO (See Item 3)	
5	CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER NONE
	8	SHARED VOTING POWER 21,304,500
	9	SOLE DISPOSITIVE POWER NONE
	10	SHARED DISPOSITIVE POWER 21,304,500
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 21,304,500	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input checked="" type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 4.9%*	
14	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) IN	

* This calculation is based on 438,082,756 shares of Common Stock outstanding as of July 31, 2018 as reported in the Issuer's Annual Report on Form 10-K filed on August 3, 2018 for the calendar year ended June 30, 2018.

This amendment No. 6 (the "Amendment No. 6") to Schedule 13D relates to the Schedule 13D filed on August 7, 2017 (the "Original Schedule 13D"), as amended and supplemented through the date of this Amendment No. 6, the "Schedule 13D") by (i) Pershing Square Capital Management, L.P., a Delaware limited partnership ("Pershing Square"); (ii) PS Management GP, LLC, a Delaware limited liability company ("PS Management"); and (iii) William A. Ackman, a citizen of the United States of America (together with Pershing Square and PS Management, the "Reporting Persons") relating to the common stock, par value \$0.10 per share (the "Common Stock"), of Automatic Data Processing, Inc., a Delaware corporation (the "Issuer").

Capitalized terms used but not defined in this Amendment No. 6 shall have the meanings set forth in the Schedule 13D.

Except as specifically amended by this Amendment No. 6, the Schedule 13D is unchanged.

Item 1. Security and Issuer

The second and third paragraphs of Item 1 of the Original Schedule 13D is hereby amended and restated in full to read as follows:

"The Reporting Persons beneficially own 21,304,500 shares of Common Stock (the "Subject Shares"), which number includes: 4,029,427 shares of Common Stock, and 17,275,073 shares underlying listed and over-the-counter American-style call options.

The Subject Shares represent approximately 4.9% of the outstanding shares of Common Stock based on 438,082,756 shares of Common Stock outstanding as of July 31, 2018 as reported in the Issuer's Annual Report on Form 10-K filed on August 3, 2018 for the calendar year ended June 30, 2018."

Item 4. Purpose of the Transaction

Item 4 of the Original Schedule 13D is hereby amended and supplemented by adding the following information:

"The Reporting Persons on behalf of the PS Funds acquired and sold certain Common Stock and certain American-style call options for portfolio management purposes, the net impact of which was to reduce the Reporting Persons' beneficial ownership to below 5% of the outstanding shares of Common Stock of the Issuer. The trades are set forth in Exhibit 99.12."

Item 5. Interest in Securities of the Issuer

Item 5 of the Original Schedule 13D is hereby amended and supplemented by adding the following information:

"(a), (b) Information about the number and percentage of shares of Common Stock beneficially owned by the Reporting Persons is set forth in Item 1, and that information is incorporated by reference herein.

(c) Exhibit 99.12 filed herewith, which is incorporated by reference into this Item 5(c) as if restated in full, and Exhibit 99.11 previously filed, describe all of the transactions in the Common Stock or derivatives relating to Common Stock that were effected in the past 60 days by the Reporting Persons for the benefit of Pershing Square and the PS Funds. Except as set forth in Exhibit 99.11 and Exhibit 99.12 no reportable transactions were effected by any Reporting Person within the last 60 days.

(e) The Reporting Persons ceased to be beneficial owners of more than five percent of the shares of Common Stock on August 16, 2018.”

Item 7. Material to be Filed as Exhibits

Item 7 of the Original Schedule 13D is hereby amended and supplemented by adding a reference to the following exhibit:

Exhibit 99.12 Trading data.

SIGNATURE

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

Dated: August 17, 2018

**PERSHING SQUARE CAPITAL
MANAGEMENT, L.P.**

By: PS Management GP, LLC, its General Partner

By /s/ William A. Ackman

William A. Ackman

Managing Member

PS MANAGEMENT GP, LLC

By /s/ William A. Ackman

William A. Ackman

Managing Member

/s/ William A. Ackman

William A. Ackman

INDEX TO EXHIBITS

<u>Exhibit</u>	<u>Description</u>
Exhibit 99.1	Joint Filing Agreement, dated as of August 7, 2017, among Pershing Square, PS Management and William A. Ackman.*
Exhibit 99.2	Trading data.*
Exhibit 99.3	Form of Confirmation for Forward Purchase Contracts.*
Exhibit 99.4	Form of Confirmation for Call Options.*
Exhibit 99.5	Notification Letter, dated as of August 7, 2017.*
Exhibit 99.6	Press Release, dated as of August 7, 2017.*
Exhibit 99.7	Trading data.*
Exhibit 99.8	Letter, dated September 7, 2017.*
Exhibit 99.9	Letter, dated September 15, 2017.*
Exhibit 99.10	Trading data.*
Exhibit 99.11	Trading data.*
Exhibit 99.12	Trading data.

* Previously Filed

Name	Trade Date	Buy/Sell/ Exercise	No. of Shares / Quantity	Unit Cost	Strike Price	Trade Amount	Security	Expiration Date
Pershing Square, L.P.	August 15, 2018	Sell	5,510	\$ 69.79	\$ 76.06	\$ 384,557	OTC Call Option	June 23, 2020
Pershing Square, L.P.	August 16, 2018	Sell	62,268	\$ 70.49	\$ 76.06	\$ 4,389,271	OTC Call Option	June 23, 2020
Pershing Square, L.P.	August 17, 2018	Sell	63,612	\$ 71.69	\$ 76.06	\$ 4,560,376	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 17, 2018	Sell	3,096	\$ 67.23	\$ 76.06	\$ 208,144	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 18, 2018	Sell	6,838	\$ 67.16	\$ 76.06	\$ 459,240	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 19, 2018	Sell	2,910	\$ 66.84	\$ 76.06	\$ 194,504	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 20, 2018	Sell	760	\$ 67.65	\$ 76.06	\$ 51,414	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 23, 2018	Sell	4,578	\$ 67.27	\$ 76.06	\$ 307,962	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 24, 2018	Sell	865	\$ 67.57	\$ 76.06	\$ 58,444	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	July 25, 2018	Sell	1,137	\$ 67.51	\$ 76.06	\$ 76,759	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	August 13, 2018	Sell	11,165	\$ 69.16	\$ 76.06	\$ 772,171	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	August 14, 2018	Sell	5,234	\$ 70.04	\$ 76.06	\$ 366,589	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	August 15, 2018	Sell	1,621	\$ 69.79	\$ 76.06	\$ 113,134	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	August 16, 2018	Sell	3,276	\$ 70.49	\$ 76.06	\$ 230,925	OTC Call Option	June 23, 2020
Pershing Square II, L.P.	August 17, 2018	Sell	3,156	\$ 71.69	\$ 76.06	\$ 226,255	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 17, 2018	Sell	195,939	\$137.27	N/A	\$26,897,333	Common Stock	N/A
Pershing Square Holdings, Ltd.	July 17, 2018	Sell	83,654	\$ 67.23	\$ 76.06	\$ 5,624,058	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 18, 2018	Sell	493,162	\$ 67.16	\$ 76.06	\$33,120,760	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 19, 2018	Sell	214,401	\$ 66.84	\$ 76.06	\$14,330,563	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 20, 2018	Sell	22,240	\$ 67.65	\$ 76.06	\$ 1,504,536	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 23, 2018	Sell	330,422	\$ 67.27	\$ 76.06	\$22,227,488	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 24, 2018	Sell	47,635	\$ 67.57	\$ 76.06	\$ 3,218,459	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	July 25, 2018	Sell	92,363	\$ 67.51	\$ 76.06	\$ 6,235,426	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 9, 2018	Sell	236,000	\$ 68.03	\$ 76.06	\$16,055,080	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 10, 2018	Sell	264,000	\$ 68.63	\$ 76.06	\$18,118,320	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 13, 2018	Sell	278,835	\$ 69.16	\$ 76.06	\$19,284,229	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 14, 2018	Sell	380,766	\$ 70.04	\$ 76.06	\$26,668,851	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 15, 2018	Sell	110,869	\$ 69.79	\$ 76.06	\$ 7,737,825	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 16, 2018	Sell	230,456	\$ 70.49	\$ 76.06	\$16,244,843	OTC Call Option	June 23, 2020
Pershing Square Holdings, Ltd.	August 17, 2018	Sell	237,232	\$ 71.69	\$ 76.06	\$17,007,281	OTC Call Option	June 23, 2020
Pershing Square VI Master, L.P.	June 28, 2018	Buy	122,800	\$ 41.57	\$108.00	\$ 5,104,366	OTC Call Option	January 15, 2021
Pershing Square Capital Management, L.P.	July 25, 2018	Buy	1	\$137.86	N/A	\$ 138	Common Stock	N/A