

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

FORM 10-D

ASSET-BACKED ISSUER
Distribution Report Pursuant to Section 13 or 15(d) of
the Securities Exchange Act of 1934

For the monthly reporting period from July 1, 2025 to July 31, 2025

Commission File Number of issuing entity: 333-260710-05
Central Index Key Number of issuing entity: 0002039534

CAPITAL ONE PRIME AUTO RECEIVABLES TRUST 2024-1
(Exact name of issuing entity as specified in its charter)

Commission File Number of depositor: 333-260710
Central Index Key Number of depositor: 0001133438

CAPITAL ONE AUTO RECEIVABLES, LLC
(Exact name of depositor as specified in its charter)

Central Index Key Number of sponsor: 0000047288

CAPITAL ONE, NATIONAL ASSOCIATION
(Exact name of sponsor as specified in its charter)

Eric Bauder
Senior Director, Capital Markets
703-720-3148

Delaware
(State of jurisdiction of incorporation or organization of the issuing entity)
33-6396698
(I.R.S. Employer Identification No.)

c/o Capital One Auto Receivables, LLC
1600 Capital One Drive
Room 27907B
McLean, Virginia
(Address of principal executive offices)

22102
(zip code)

703-720-3148
(Telephone number, including area code)

Each class of Notes to which this report on Form 10-D relates is subject to the reporting requirements of Section 15(d) of the Securities Exchange Act of 1934. The title of each class of Notes to which this report on Form 10-D relates is set forth in Exhibit 99.1 hereto.

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.
Yes ☒ No ☐

PART I - DISTRIBUTION INFORMATION

ITEM 1 - Distribution and Pool Performance Information.

Response to Item 1 is set forth in Exhibit 99.1.

ITEM 1A -Asset-Level Information.

The asset-level data for the asset pool of the issuing entity included in Exhibit 102 to the Form ABS-EE filed by the issuing entity with the U.S. Securities and Exchange Commission on August 15, 2025 (the “Form ABS-EE”) is incorporated into this Form 10-D by reference.

The additional asset-level information or explanatory language for the asset pool of the issuing entity included in Exhibit 103 to the Form ABS-EE is also incorporated into this Form 10-D by reference.

ITEM 1B - Asset Representations Reviewer and Investor Communication.

None.

PART II - OTHER INFORMATION

ITEM 2 - Legal Proceedings.

None.

ITEM 3 - Sales of Securities and Use of Proceeds.

None.

ITEM 4 - Defaults Upon Senior Securities.

None.

ITEM 5 - [Reserved]

ITEM 6 - Significant Obliger's of Pool Assets.

None.

ITEM 7 - Change in Sponsor Interest in the Securities.

None.

ITEM 8 - Significant Enhancement Provider Information.

None.

ITEM 9 - Other Information.

Repurchases and Replacements

No assets securitized by Capital One, National Association ("CONA") and held by the issuing entity were the subject of a demand to repurchase or replace for breach of the representations and warranties during the monthly reporting period from July 1, 2025 to July 31, 2025. Please refer to the Form ABS-15G filed by the depositor on February 7, 2025 for additional information. The CIK number of the depositor is 0001133438.

Credit Risk Retention Rules

On November 26, 2024 (the "Closing Date"), CONA (either directly or through one or more wholly-owned special purposes subsidiaries of CONA) retained 5% of each class of Notes and the Certificates issued by Capital One Prime Auto Receivables Trust 2024-1 (collectively, the "Retained Interest") (a) in order to enable compliance by affected institutional investors with certain provisions of Regulation (EU) 2017/2402 of the European Parliament and of the Council of December 12, 2017 (the "EU Securitization Regulation") and all relevant implementing regulations in relation thereto, all regulatory and/or implementing technical standards in relation thereto or applicable in relation thereto pursuant to any transitional arrangements made pursuant to the EU Securitization Regulation and, in each case, any relevant guidance published in relation thereto by the European Banking Authority, the European Securities and Markets Authority and the European Insurance and Occupational Pensions Authority (or in each case, any predecessor or any other applicable regulatory authority) or by the European Commission (collectively, together with the EU Securitization Regulation, the "EU SR Rules"), each as in effect and applicable on the Closing Date, and (b) in order to enable compliance by affected institutional investors with certain provisions of the Securitisation Regulations 2024 (as amended), together with (i) the securitisation sourcebook of the handbook of rules and guidance adopted by the Financial Conduct Authority (the "FCA") of the United Kingdom (the "UK") (the "SECN"), (ii) the Securitisation Part of the rulebook of published policy of the Prudential Regulation Authority of the Bank of England (the "PRA") (the "PRASR") and (iii) relevant provisions of the Financial Services and Markets Act 2000 (as amended) (collectively, the "UK Securitization Framework") and (i) all relevant guidance, policy statements and directions relating to the application of the UK Securitization Framework published by the FCA and/or the PRA and/or The Pensions Regulator (or their successors), (ii) any guidelines relating to the application of the EU Securitization Regulation which are applicable in the UK and (iii) any other applicable laws, acts, statutory instruments, rules, guidance or policy statements published or enacted relating to the UK Securitization Framework (collectively, together with the UK Securitization Framework, the "UK SF Rules"), each as in effect and applicable on the Closing Date. As of the last day of the period covered by this report CONA (either directly or through one or more wholly-owned special purposes subsidiaries of CONA) continues to retain the Retained Interest for purposes of the EU SR Rules and the UK SF Rules.

CONA has not hedged or otherwise mitigated (and has not permitted the depositor or any of its affiliates to hedge or otherwise mitigate) its credit risk under or associated with the Retained Interest, or sold, transferred or otherwise surrendered all or part of the rights, benefits or obligations arising from the Retained Interest, except, in each case, as permitted under those EU SR Rules and those UK SF Rules.

CONA has not changed the manner in which it retains the Retained Interest, except in accordance with those EU SR Rules and those UK SF Rules.

Transparency Requirements of EU Securitization Regulation and UK Securitization Framework

This transaction has not been structured to ensure compliance by any person with the transparency requirements in Article 7 of the EU Securitization Regulation or SECN 6 or Article 7 of Chapter 2 of the PRASR under the UK Securitization Framework. Investors are responsible for and should analyze their own legal and regulatory position and are encouraged to consult with their own investment and legal advisors regarding the scope and application of and compliance with the EU Securitization Regulation or the UK Securitization Framework and the suitability of the Notes for investment.

ITEM 10 - Exhibits.

(a) Documents filed as part of this report:

Exhibit 99.1: [Servicer's Monthly Securityholder Report](#).

(b) Exhibits required by this Form and Item 601 of Regulation S-K:

Exhibit 102: [Asset Data File](#) (incorporated by reference to Exhibit 102 to Form ABS-EE filed by the issuing entity on August 15, 2025).

Exhibit 103: [Asset Related Document](#) (incorporated by reference to Exhibit 103 to Form ABS-EE filed by the issuing entity on August 15, 2025).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Dated: August 15, 2025

Capital One Prime Auto Receivables Trust 2024-1
(Issuing Entity)

By: **Capital One, National Association**
(Servicer, not in its individual capacity but
solely as servicer on behalf of the Issuing Entity)

By: /s/ Jeremy Potts
Name: Jeremy Potts
Title: Managing Vice President, Deputy Controller

CAPITAL ONE PRIME AUTO RECEIVABLES TRUST 2024-1
Statement to Securityholders
Determination Date: August 12, 2025

Payment Date	8/15/2025
Collection Period Start	7/1/2025
Collection Period End	7/31/2025
Interest Period Start	7/15/2025
Interest Period End	8/14/2025
Cut-Off Date Net Pool Balance	\$ 1,116,124,822.45
Cut-Off Date Adjusted Pool Balance	\$ 1,085,195,990.01

I. DEAL SUMMARY

	<u>Beginning Note Balance</u>	<u>Principal Payment</u>	<u>Ending Note Balance</u>	<u>Note Factor</u>	<u>Final Scheduled Payment Date</u>
Class A-1 Notes	\$ —	\$ —	\$ —	—	Dec-25
Class A-2a Notes	\$ 224,198,357.87	\$ 26,260,703.14	\$ 197,937,654.73	0.628773	Oct-27
Class A-2b Notes	\$ 56,120,808.76	\$ 6,573,517.82	\$ 49,547,290.94	0.628773	Oct-27
Class A-3 Notes	\$ 393,600,000.00	\$ —	\$ 393,600,000.00	1.000000	Jul-29
Class A-4 Notes	\$ 65,440,000.00	\$ —	\$ 65,440,000.00	1.000000	Jan-30
Class B Notes	\$ 10,850,000.00	\$ —	\$ 10,850,000.00	1.000000	Feb-30
Class C Notes	\$ 10,850,000.00	\$ —	\$ 10,850,000.00	1.000000	Apr-30
Class D Notes	\$ 10,850,000.00	\$ —	\$ 10,850,000.00	1.000000	Jan-31
Total Notes	\$ 771,909,166.63	\$ 32,834,220.96	\$ 739,074,945.67		

	<u>Beginning Balance</u>	<u>Ending Balance</u>	<u>Pool Factor</u>
Net Pool Balance	\$ 797,084,393.16	\$ 763,379,505.24	0.683955
YSOC Amount	\$ 22,462,236.55	\$ 21,591,569.59	
Adjusted Pool Balance	\$ 774,622,156.61	\$ 741,787,935.65	
Overcollateralization Amount (Adjusted Pool Balance - Note Balance)	\$ 2,712,989.98	\$ 2,712,989.98	
Reserve Account Balance	\$ 2,712,989.98	\$ 2,712,989.98	

	<u>Beginning Note Balance</u>	<u>Interest Rate</u>	<u>Accrual Methodology</u>	<u>Interest Payment</u>
Class A-1 Notes	\$ —	4.62200%	ACT/360	\$ —
Class A-2a Notes	\$ 224,198,357.87	4.61000%	30/360	\$ 861,295.36
Class A-2b Notes	\$ 56,120,808.76	4.65962%	ACT/360	\$ 225,181.97
Class A-3 Notes	\$ 393,600,000.00	4.62000%	30/360	\$ 1,515,360.00
Class A-4 Notes	\$ 65,440,000.00	4.66000%	30/360	\$ 254,125.33
Class B Notes	\$ 10,850,000.00	4.89000%	30/360	\$ 44,213.75
Class C Notes	\$ 10,850,000.00	5.09000%	30/360	\$ 46,022.08
Class D Notes	\$ 10,850,000.00	5.43000%	30/360	\$ 49,096.25
Total Notes	\$ 771,909,166.63			\$ 2,995,294.74

II. COLLATERAL POOL BALANCE

	<u>Beginning of Period</u>		<u>End of Period</u>	
Net Pool Balance	\$	797,084,393.16	\$	763,379,505.24
Adjusted Pool Balance (Net Pool Balance - YSOC Amount)	\$	774,622,156.61	\$	741,787,935.65
Number of Receivables Outstanding		41,657		40,727
Weighted Average Contract Rate		7.57 %		7.57 %
Weighted Average Remaining Term (months)		47.8		46.9

III. FUNDS AVAILABLE FOR DISTRIBUTION

Available Funds:			
a. Collections			
Interest Collections	\$		4,971,016.76
Principal Collections	\$		33,304,798.87
Liquidation Proceeds	\$		100,822.20
b. Repurchase Price	\$		—
c. Optional Purchase Price	\$		—
d. Reserve Account Excess Amount	\$		—
Total Available Funds	\$		38,376,637.83
Reserve Account Draw Amount	\$		—
Total Funds Available for Distribution	\$		38,376,637.83

IV. DISTRIBUTION

	<u>Calculated Amount</u>		<u>Amount Paid</u>		<u>Shortfall</u>		<u>Carryover Shortfall</u>		<u>Remaining Available</u>
									<u>Funds</u>
Servicing Fee	\$	664,236.99	\$	664,236.99	\$	—	\$	—	\$ 37,712,400.84
Interest - Class A-1 Notes	\$	—	\$	—	\$	—	\$	—	\$ 37,712,400.84
Interest - Class A-2a Notes	\$	861,295.36	\$	861,295.36	\$	—	\$	—	\$ 36,851,105.48
Interest - Class A-2b Notes	\$	225,181.97	\$	225,181.97	\$	—	\$	—	\$ 36,625,923.51
Interest - Class A-3 Notes	\$	1,515,360.00	\$	1,515,360.00	\$	—	\$	—	\$ 35,110,563.51
Interest - Class A-4 Notes	\$	254,125.33	\$	254,125.33	\$	—	\$	—	\$ 34,856,438.18
First Allocation of Principal	\$	—	\$	—	\$	—	\$	—	\$ 34,856,438.18
Interest - Class B Notes	\$	44,213.75	\$	44,213.75	\$	—	\$	—	\$ 34,812,224.43
Second Allocation of Principal	\$	8,421,230.98	\$	8,421,230.98	\$	—	\$	—	\$ 26,390,993.45
Interest - Class C Notes	\$	46,022.08	\$	46,022.08	\$	—	\$	—	\$ 26,344,971.37
Third Allocation of Principal	\$	10,850,000.00	\$	10,850,000.00	\$	—	\$	—	\$ 15,494,971.37
Interest - Class D Notes	\$	49,096.25	\$	49,096.25	\$	—	\$	—	\$ 15,445,875.12
Fourth Allocation of Principal	\$	10,850,000.00	\$	10,850,000.00	\$	—	\$	—	\$ 4,595,875.12
Reserve Account Deposit Amount	\$	—	\$	—	\$	—	\$	—	\$ 4,595,875.12
Regular Principal Distribution Amount	\$	2,712,989.98	\$	2,712,989.98	\$	—	\$	—	\$ 1,882,885.14
Owner Trustee, Indenture Trustee, and ARR Fees & Expenses	\$	—	\$	—	\$	—	\$	—	\$ 1,882,885.14
Remaining Funds to Certificates	\$	1,882,885.14	\$	1,882,885.14	\$	—	\$	—	—
Total	\$	38,376,637.83	\$	38,376,637.83	\$	—	\$	—	

V. OVERCOLLATERALIZATION INFORMATION

Yield Supplement Overcollateralization Amount:			
Beginning Period YSOC Amount		\$	22,462,236.55
Increase/(Decrease)		\$	(870,666.96)
Ending YSOC Amount		\$	21,591,569.59
Overcollateralization:		Beginning of Period	End of Period
Adjusted Pool Balance	\$	774,622,156.61	\$ 741,787,935.65
Note Balance	\$	771,909,166.63	\$ 739,074,945.67
Overcollateralization (Adjusted Pool Balance - Note Balance)	\$	2,712,989.98	\$ 2,712,989.98
Target Overcollateralization Amount	\$	2,712,989.98	\$ 2,712,989.98
Overcollateralization Shortfall	\$	—	\$ —

VI. RESERVE ACCOUNT

Specified Reserve Account Balance	\$	2,712,989.98
Beginning Reserve Account Balance	\$	2,712,989.98
Reserve Account Deposit Amount	\$	—
Reserve Account Draw Amount	\$	—
Reserve Account Excess Amount	\$	—
Ending Reserve Account Balance	\$	2,712,989.98

VII. NET LOSS AND DELINQUENT RECEIVABLES

Net Loss:	% of EOP Net Pool Balance	# of Receivables	Amount
Defaulted Receivables during Collection Period (Principal Balance) ¹	0.05%	34	\$ 400,089.05
Liquidation Proceeds of Defaulted Receivables ²	0.01%	64	\$ 100,822.20
Monthly Net Losses (Liquidation Proceeds)			\$ 299,266.85
Net Losses as % of Average Pool Balance (annualized)			
Third Preceding Collection Period			(0.06)%
Second Preceding Collection Period			0.04 %
Preceding Collection Period			0.11 %
Current Collection Period			0.46 %
Four-Month Average Net Loss Ratio			0.14 %
Cumulative Net Losses for All Periods			\$ 1,300,148.70
Cumulative Net Loss Ratio			0.12 %

¹ The # of Receivables reported as Defaulted does not include any Receivables that have been paid off or have matured and were either paid in full or had a remaining balance of \$10.00 or less following the final payment.

² Liquidation Proceeds include all proceeds on a receivable after it has been charged-off.

Delinquent Receivables:	% of EOP Net Pool Balance	# of Receivables	Principal Balance
30-59 Days Delinquent	0.13%	42	\$ 976,845.61
60-89 Days Delinquent	0.03%	10	\$ 232,481.64
90-119 Days Delinquent	0.01%	4	\$ 69,037.07
120+ Days Delinquent	0.00%	0	\$ —
Total Delinquent Receivables	0.17%	56	\$ 1,278,364.32

Repossession Inventory:	# of Receivables	Principal Balance
Reposessed in the Current Collection Period	9	\$ 193,678.43
Total Repossessed Inventory	11	\$ 236,178.80

60+ Delinquency Percentage:	# of Receivables	Amount
60+ Day Delinquent Receivables	14	\$ 301,518.71
60+ Delinquencies as % of EOP Net Pool Balance		
Third Preceding Collection Period		0.03 %
Second Preceding Collection Period		0.03 %
Preceding Collection Period		0.03 %
Current Collection Period		0.04 %
Delinquency Trigger		4.50 %
Current Delinquency Percentage Exceeds Delinquency Trigger? (Yes/No)		No

VIII. TEMPORARY FORBEARANCE

The table below presents accounts which received a short-term payment extension in the month of July 2025.

	Month-End Balance	# of Receivables
	(\$MM)	(#)
	(%)	(%)
Total Extensions	0.66	28
	0.09%	0.07%