

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

FORM 10-Q

(Mark One)

☒ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2024

OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_  
Commission file number 000-15867

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CADENCE DESIGN SYSTEMS, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware  
(State or Other Jurisdiction of  
Incorporation or Organization)

2655 Seely Avenue, Building 5, San Jose, California  
(Address of Principal Executive Offices)

00-0000000  
(I.R.S. Employer  
Identification No.)

95134  
(Zip Code)

(408) 943-1234

Registrant's Telephone Number, including Area Code

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.01 par value per share	CDNS	Nasdaq Global Select Market

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 ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large Accelerated Filer ☒ Accelerated Filer ☐ Smaller Reporting Company ☐  
Non-accelerated Filer ☐ Emerging Growth Company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

On March 31, 2024, approximately 272,134,000 shares of the registrant's common stock, \$0.01 par value, were outstanding.

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**PART I. FINANCIAL INFORMATION****Item 1. Financial Statements**

**CADENCE DESIGN SYSTEMS, INC.**  
**CONDENSED CONSOLIDATED BALANCE SHEETS**  
(In thousands)  
(Unaudited)

	As of	
	March 31, 2024	December 31, 2023
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 1,012,418	\$ 1,008,152
Receivables, net	389,865	489,224
Inventories	185,784	181,661
Prepaid expenses and other	341,865	297,180
Total current assets	1,929,932	1,976,217
Property, plant and equipment, net	433,016	403,213
Goodwill	1,575,107	1,535,845
Acquired intangibles, net	334,644	336,843
Deferred taxes	886,576	880,001
Other assets	562,855	537,372
Total assets	<u>\$ 5,722,130</u>	<u>\$ 5,669,491</u>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities:		
Current portion of long-term debt	\$ 349,507	\$ 349,285
Accounts payable and accrued liabilities	456,608	576,558
Current portion of deferred revenue	659,628	665,024
Total current liabilities	1,465,743	1,590,867
Long-term liabilities:		
Long-term portion of deferred revenue	87,003	98,931
Long-term debt	299,805	299,771
Other long-term liabilities	301,983	275,651
Total long-term liabilities	688,791	674,353
Commitments and contingencies (Note 14)		
Stockholders' equity:		
Common stock and capital in excess of par value	3,331,547	3,166,964
Treasury stock, at cost	(4,840,181)	(4,604,323)
Retained earnings	5,184,027	4,936,384
Accumulated other comprehensive loss	(107,797)	(94,754)
Total stockholders' equity	3,567,596	3,404,271
Total liabilities and stockholders' equity	<u>\$ 5,722,130</u>	<u>\$ 5,669,491</u>

See notes to condensed consolidated financial statements.

**CADENCE DESIGN SYSTEMS, INC.**  
**CONDENSED CONSOLIDATED INCOME STATEMENTS**  
(In thousands, except per share amounts)  
(Unaudited)

	Three Months Ended	
	March 31, 2024	March 31, 2023
Revenue:		
Product and maintenance	\$ 913,385	\$ 963,742
Services	95,718	57,948
Total revenue	1,009,103	1,021,690
Costs and expenses:		
Cost of product and maintenance	75,395	100,238
Cost of services	49,802	24,234
Marketing and sales	180,589	166,666
Research and development	378,958	350,295
General and administrative	68,716	53,527
Amortization of acquired intangibles	5,407	4,267
Restructuring	280	—
Total costs and expenses	759,147	699,227
Income from operations	249,956	322,463
Interest expense	(8,692)	(9,260)
Other income, net	68,779	8,284
Income before provision for income taxes	310,043	321,487
Provision for income taxes	62,400	79,683
Net income	\$ 247,643	\$ 241,804
Net income per share – basic	\$ 0.92	\$ 0.90
Net income per share – diluted	\$ 0.91	\$ 0.89
Weighted average common shares outstanding – basic	269,606	269,501
Weighted average common shares outstanding – diluted	273,544	273,159

See notes to condensed consolidated financial statements.

CADENCE DESIGN SYSTEMS, INC.  
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME  
(In thousands)  
(Unaudited)

	Three Months Ended	
	March 31, 2024	March 31, 2023
Net income	\$ 247,643	\$ 241,804
Other comprehensive income (loss), net of tax effects:		
Foreign currency translation adjustments	(12,630)	3,955
Changes in defined benefit plan liabilities	(21)	263
Unrealized gains (losses) on investments	(392)	30
Total other comprehensive income (loss), net of tax effects	(13,043)	4,248
Comprehensive income	<u>\$ 234,600</u>	<u>\$ 246,052</u>

See notes to condensed consolidated financial statements.

**CADENCE DESIGN SYSTEMS, INC.**  
**CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY**  
(In thousands)  
(Unaudited)

Three Months Ended March 31, 2024

	Common Stock					Accumulated Other Comprehensive Loss	Total
	Shares	Par Value and Capital in Excess of Par	Treasury Stock	Retained Earnings			
Balance, December 31, 2023	271,706	\$ 3,166,964	\$ (4,604,323)	\$ 4,936,384	\$ (94,754)	\$	3,404,271
Net income	—	—	—	247,643	—	\$	247,643
Other comprehensive loss, net of taxes	—	—	—	—	(13,043)	\$	(13,043)
Purchase of treasury stock	(425)	—	(125,006)	—	—	\$	(125,006)
Issuance of common stock and reissuance of treasury stock under equity incentive plans, net of forfeitures	1,319	89,159	27,566	—	—	\$	116,725
Stock received for payment of employee taxes on vesting of restricted stock	(466)	(12,705)	(138,418)	—	—	\$	(151,123)
Stock-based compensation expense	—	88,129	—	—	—	\$	88,129
Balance, March 31, 2024	272,134	\$ 3,331,547	\$ (4,840,181)	\$ 5,184,027	\$ (107,797)	\$	3,567,596

Three Months Ended March 31, 2023

	Common Stock					Accumulated Other Comprehensive Loss	Total
	Shares	Par Value and Capital in Excess of Par	Treasury Stock	Retained Earnings			
Balance, December 31, 2022	272,675	\$ 2,765,673	\$ (3,824,163)	\$ 3,895,240	\$ (91,637)	\$	2,745,113
Net income	—	—	—	241,804	—	\$	241,804
Other comprehensive income, net of taxes	—	—	—	—	4,248	\$	4,248
Purchase of treasury stock	(668)	—	(125,010)	—	—	\$	(125,010)
Issuance of common stock and reissuance of treasury stock under equity incentive plans, net of forfeitures	972	47,246	20,899	—	—	\$	68,145
Stock received for payment of employee taxes on vesting of restricted stock	(295)	(8,458)	(59,254)	—	—	\$	(67,712)
Stock-based compensation expense	—	74,288	—	—	—	\$	74,288
Balance, March 31, 2023	272,684	\$ 2,878,749	\$ (3,987,528)	\$ 4,137,044	\$ (87,389)	\$	2,940,876

See notes to condensed consolidated financial statements.

**CADENCE DESIGN SYSTEMS, INC.**  
**CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS**  
(In thousands)  
(Unaudited)

	Three Months Ended	
	March 31, 2024	March 31, 2023
Cash and cash equivalents at beginning of period	\$ 1,008,152	\$ 882,325
Cash flows from operating activities:		
Net income	247,643	241,804
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	39,556	34,400
Amortization of debt discount and fees	320	311
Stock-based compensation	88,129	74,288
Gain on investments, net	(55,394)	(123)
Deferred income taxes	(1,523)	(11,640)
Provisions for losses on receivables	158	214
ROU asset amortization and change in operating lease liabilities	(917)	(1,392)
Other non-cash items	78	99
Changes in operating assets and liabilities, net of effect of acquired businesses:		
Receivables	102,991	(8,719)
Inventories	(10,689)	399
Prepaid expenses and other	(15,073)	56,212
Other assets	(7,535)	(42,084)
Accounts payable and accrued liabilities	(117,291)	(117,915)
Deferred revenue	(23,941)	40,650
Other long-term liabilities	6,720	897
Net cash provided by operating activities	253,232	267,401
Cash flows from investing activities:		
Purchases of investments	(2,095)	(9,055)
Proceeds from the sale and maturity of investments	43,377	102
Purchases of property, plant and equipment	(49,601)	(26,719)
Cash paid in business combinations, net of cash acquired	(71,450)	—
Net cash used for investing activities	(79,769)	(35,672)
Cash flows from financing activities:		
Proceeds from revolving credit facility	—	50,000
Payments on revolving credit facility	—	(120,000)
Proceeds from issuance of common stock	116,725	65,370
Stock received for payment of employee taxes on vesting of restricted stock	(151,123)	(67,712)
Payments for repurchases of common stock	(125,006)	(125,010)
Net cash used for financing activities	(159,404)	(197,352)
Effect of exchange rate changes on cash and cash equivalents	(9,793)	261
Increase in cash and cash equivalents	4,266	34,638
Cash and cash equivalents at end of period	\$ 1,012,418	\$ 916,963
Supplemental cash flow information:		
Cash paid for interest	\$ 4,903	\$ 5,142
Cash paid for income taxes, net	23,850	19,814

See notes to condensed consolidated financial statements.

**CADENCE DESIGN SYSTEMS, INC.**  
**NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS**  
**(Unaudited)**

**NOTE 1. BASIS OF PRESENTATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**Basis of Presentation**

The condensed consolidated financial statements included in this Quarterly Report on Form 10-Q have been prepared by Cadence Design Systems, Inc. ("Cadence") without audit, pursuant to the rules and regulations of the United States Securities and Exchange Commission (the "SEC"). Certain information and footnote disclosures normally included in consolidated financial statements prepared in accordance with United States generally accepted accounting principles ("U.S. GAAP") have been condensed or omitted pursuant to such rules and regulations. However, Cadence believes that the disclosures contained in this Quarterly Report on Form 10-Q comply with the requirements of Section 13(a) of the Securities Exchange Act of 1934, as amended, (the "Exchange Act") for a Quarterly Report on Form 10-Q and are adequate to make the information presented not misleading. These condensed consolidated financial statements are meant to be, and should be, read in conjunction with the consolidated financial statements and the notes thereto included in Cadence's Annual Report on Form 10-K for the fiscal year ended December 31, 2023.

The unaudited condensed consolidated financial statements included in this Quarterly Report on Form 10-Q reflect all adjustments (which include only normal, recurring adjustments and those items discussed in these notes) that are, in the opinion of management, necessary to state fairly the results of operations, cash flows and financial position for the periods and dates presented. The results for such periods are not necessarily indicative of the results to be expected for the full fiscal year or other periods. Certain prior period balances have been reclassified to conform to the current period presentation. Management has evaluated subsequent events through the issuance date of the unaudited condensed consolidated financial statements.

**Fiscal Year End**

Cadence's fiscal year end is December 31, and its fiscal quarters end on March 31, June 30, and September 30.

**Use of Estimates**

Preparation of the condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of revenue and expenses during the reporting period.

Despite continued uncertainty and disruption in the macroeconomic and geopolitical environment, Cadence is not aware of any specific event or circumstance that would require an update to its estimates or judgments or a revision of the carrying value of its assets or liabilities as of April 23, 2024, the date of issuance of this Quarterly Report on Form 10-Q. These estimates may change, as new events or developments occur and additional information is obtained. Actual results could differ materially from these estimates under different assumptions or conditions.

**Recently Adopted Accounting Standards**

Cadence has not recently adopted any accounting standard updates that are material or potentially material to its condensed consolidated financial statements.

**New Accounting Standards Not Yet Adopted**

*Segment Reporting*

In November 2023, the Financial Accounting Standards Board ("FASB"), issued Accounting Standards Update ("ASU") No. 2023-07, "Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures," intended to improve reportable segment disclosure requirements, primarily through enhanced annual and interim disclosures about significant segment expenses. This standard is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted. Cadence is currently evaluating the impact of adopting this standard on its financial statement disclosures.

*Income Taxes*

In December 2023, the FASB issued ASU No. 2023-09, "Income Taxes (Topic 740): Improvements to Income Tax Disclosures," which requires disclosure of disaggregated income taxes paid, prescribes standard categories for the components of the effective tax rate reconciliation, and modifies other income tax-related disclosures. This standard is effective for fiscal years beginning after December 15, 2024, and may be applied on a retrospective or prospective basis. Cadence is currently evaluating the impact of adopting this standard on its financial statement disclosures.



## NOTE 2. REVENUE

Cadence groups its products and services into five categories related to major design activities. The following table shows the percentage of revenue contributed by each of Cadence's five product categories for the three months ended March 31, 2024 and March 31, 2023:

	Three Months Ended	
	March 31, 2024	March 31, 2023
Custom Integrated Circuit ("IC") Design and Simulation	22 %	20 %
Digital IC Design and Signoff	29 %	25 %
Functional Verification, including Emulation and Prototyping Hardware*	25 %	32 %
Intellectual Property ("IP")	12 %	11 %
System Design and Analysis	12 %	12 %
Total	100 %	100 %

\* Includes immaterial amount of revenue accounted for under leasing arrangements.

Cadence generates revenue from contracts with customers and applies judgment in identifying and evaluating any terms and conditions in contracts which may impact revenue recognition. Certain of Cadence's licensing arrangements allow customers the ability to remix among software products. Cadence also has arrangements with customers that include a combination of products, with the actual product selection and number of licensed users to be determined at a later date. For these arrangements, Cadence estimates the allocation of the revenue to product categories based upon the expected usage of products. Revenue by product category fluctuates from period to period based on demand for products and services, and Cadence's available resources to deliver them. No single customer accounted for 10% or more of total revenue during the three months ended March 31, 2024 or March 31, 2023.

Recurring revenue includes revenue recognized over time from Cadence's software arrangements, services, royalties, maintenance on IP licenses and hardware, and operating leases of hardware. Recurring revenue also includes revenue recognized at varying points in time over the term of other arrangements with non-cancelable commitments, whereby the customer commits to a fixed dollar amount over a specified period of time that can be used to purchase from a list of products or services. These arrangements do not meet the definition of a revenue contract until the customer executes a separate selection form to identify the products and services that they are purchasing. Each separate selection form under the arrangement is treated as an individual contract and accounted for based on the respective performance obligations.

The remainder of Cadence's revenue is recognized at a point in time and is characterized as up-front revenue. Up-front revenue is primarily generated by sales of emulation and prototyping hardware and individual IP licenses.

The percentage of Cadence's recurring and up-front revenue is impacted by delivery of hardware and IP products to its customers in any single fiscal period.

The following table shows the percentage of Cadence's revenue that is classified as recurring or up-front for the three months ended March 31, 2024 and March 31, 2023:

	Three Months Ended	
	March 31, 2024	March 31, 2023
Revenue recognized over time	87 %	77 %
Revenue from arrangements with non-cancelable commitments	3 %	3 %
Recurring revenue	90 %	80 %
Up-front revenue	10 %	20 %
Total	100 %	100 %

### **Significant Judgments**

Cadence's contracts with customers often include promises to transfer to a customer multiple software and/or IP licenses and services, including professional services, technical support services, and rights to unspecified updates. Determining whether licenses and services are distinct performance obligations that should be accounted for separately, or not distinct and thus accounted for together, requires significant judgment. In some arrangements, such as most of Cadence's IP license arrangements, Cadence has concluded that the licenses and associated services are distinct from each other. In others, like Cadence's time-based software arrangements, the licenses and certain services are not distinct from each other. Cadence's time-based software arrangements include multiple software licenses and updates to the licensed software products, as well as technical support, and Cadence has concluded that these promised goods and services are a single, combined performance obligation.

The accounting for contracts with multiple performance obligations requires the contract's transaction price to be allocated to each distinct performance obligation based on relative stand-alone selling price ("SSP"). Judgment is required to determine the SSP for each distinct performance obligation because Cadence rarely licenses or sells products on a standalone basis. In instances where the SSP is not directly observable because Cadence does not sell the license, product or service separately, Cadence determines the SSP using information that maximizes the use of observable inputs and may include market conditions. Cadence typically has more than one SSP for individual performance obligations due to the stratification of those items by classes of customers and circumstances. In these instances, Cadence may use information such as the size of the customer and geographic region of the customer in determining the SSP.

Revenue is recognized over time for Cadence's combined performance obligations that include software licenses, updates, technical support and maintenance that are separate performance obligations with the same term. For Cadence's professional services, revenue is recognized over time, generally using costs incurred or hours expended to measure progress. Judgment is required in estimating project status and the costs necessary to complete projects. A number of internal and external factors can affect these estimates, including labor rates, utilization and efficiency variances and specification and testing requirement changes. For Cadence's other performance obligations recognized over time, revenue is generally recognized using a time-based measure of progress reflecting generally consistent efforts to satisfy those performance obligations throughout the arrangement term.

If a group of agreements are so closely related that they are, in effect, part of a single arrangement, such agreements are deemed to be one arrangement for revenue recognition purposes. Cadence exercises significant judgment to evaluate the relevant facts and circumstances in determining whether the separate agreements should be accounted for separately or as, in substance, a single arrangement. Cadence's judgments about whether a group of contracts comprise a single arrangement can affect the allocation of consideration to the distinct performance obligations, which could have an effect on results of operations for the periods involved.

Cadence is required to estimate the total consideration expected to be received from contracts with customers. In limited circumstances, the consideration expected to be received is variable based on the specific terms of the contract or based on Cadence's expectations of the term of the contract. Generally, Cadence has not experienced significant returns or refunds to customers. These estimates require significant judgment and a change in these estimates could have an effect on its results of operations during the periods involved.

### **Contract Balances**

The timing of revenue recognition may differ from the timing of invoicing to customers, and these timing differences result in receivables, contract assets, or contract liabilities (deferred revenue) on Cadence's condensed consolidated balance sheets. For certain software, hardware and IP agreements with payment plans, Cadence records an unbilled receivable related to revenue recognized upon transfer of control because it has an unconditional right to invoice and receive payment in the future related to those transferred products or services. Cadence records a contract asset when revenue is recognized prior to invoicing and Cadence does not have the unconditional right to invoice or retains performance risk with respect to that performance obligation. Cadence records deferred revenue when revenue is recognized subsequent to invoicing. For Cadence's time-based software agreements, customers are generally invoiced in equal, quarterly amounts, although some customers prefer to be invoiced in single or annual amounts.

The contract assets indicated below are included in prepaid expenses and other in the condensed consolidated balance sheets and primarily relate to Cadence's rights to consideration for work completed but not billed as of the balance sheet date on services and customized IP contracts. The contract assets are transferred to receivables when the rights become unconditional, usually upon completion of a milestone.

Cadence's contract balances as of March 31, 2024 and December 31, 2023 were as follows:

	As of	
	March 31, 2024	December 31, 2023
	(In thousands)	
Contract assets	\$ 49,895	\$ 17,554
Deferred revenue	746,631	763,955

Cadence recognized revenue of \$324.4 million during the three months ended March 31, 2024, and \$363.2 million during the three months ended March 31, 2023, that was included in the deferred revenue balance at the beginning of each respective fiscal year. All other activity in deferred revenue, with the exception of deferred revenue assumed from acquisitions, is due to the timing of invoices in relation to the timing of revenue as described above.

Payment terms and conditions vary by contract type, although terms generally include a requirement of payment within 30 to 60 days. In instances where the timing of revenue recognition differs from the timing of invoicing, Cadence has determined that its contracts generally do not include a significant financing component. The primary purpose of invoicing terms is to provide customers with simplified and predictable ways of purchasing Cadence's products and services, and not to facilitate financing arrangements.

#### Remaining Performance Obligations

Revenue allocated to remaining performance obligations represents the transaction price allocated to the performance obligations that are unsatisfied, or partially unsatisfied, which includes unearned revenue and amounts that will be invoiced and recognized as revenue in future periods. Cadence has elected to exclude the potential future royalty receipts from the remaining performance obligations. Contracted but unsatisfied performance obligations were approximately \$6.0 billion as of March 31, 2024, which included \$0.4 billion of non-cancelable commitments from customers where actual product selection and quantities of specific products or services are to be determined by customers at a later date.

Cadence estimates its remaining performance obligations at a point in time. Actual amounts and timing of revenue recognition may differ from these estimates largely due to changes in actual installation and delivery dates, as well as contract renewals, modifications and terminations. As of March 31, 2024, Cadence expected to recognize 56% of the contracted but unsatisfied performance obligations, excluding non-cancelable commitments, as revenue over the next 12 months, 38% over the next 13 to 36 months and the remainder thereafter.

Cadence recognized revenue of \$15.0 million during the three months ended March 31, 2024, and \$15.2 million during the three months ended March 31, 2023, from performance obligations satisfied in previous periods. These amounts represent royalties earned during the period and exclude contracts with nonrefundable prepaid royalties. Nonrefundable prepaid royalties are recognized upon delivery of the IP because Cadence's right to the consideration is not contingent upon customers' future shipments.

#### NOTE 3. RECEIVABLES, NET

Cadence's current and long-term receivables balances as of March 31, 2024 and December 31, 2023 were as follows:

	As of	
	March 31, 2024	December 31, 2023
	(In thousands)	
Accounts receivable	\$ 219,937	\$ 299,814
Unbilled accounts receivable	174,169	193,963
Long-term receivables	12,898	10,755
Total receivables	407,004	504,532
Less allowance for doubtful accounts	(4,241)	(4,553)
Total receivables, net	\$ 402,763	\$ 499,979

Cadence's customers are primarily concentrated within the semiconductor and electronics systems industries. As of March 31, 2024 and December 31, 2023, no single customer accounted for 10% or more of Cadence's total receivables.

#### NOTE 4. DEBT

Cadence's outstanding debt was as follows:

	March 31, 2024			December 31, 2023		
	Principal	Unamortized Discount	Carrying Value	Principal	Unamortized Discount	Carrying Value
2024 Notes	\$ 350,000	\$ (493)	\$ 349,507	\$ 350,000	\$ (715)	\$ 349,285
2025 Term Loan	300,000	(195)	299,805	300,000	(229)	299,771
Total outstanding debt	\$ 650,000	\$ (688)	\$ 649,312	\$ 650,000	\$ (944)	\$ 649,056

##### Revolving Credit Facility

In June 2021, Cadence entered into a five-year senior unsecured revolving credit facility with a group of lenders led by Bank of America, N.A., as administrative agent (the "2021 Credit Facility"). In September 2022, Cadence amended the 2021 Credit Facility to, among other things, allow Cadence to change its fiscal year to match the calendar year commencing in 2023 and change the interest rate benchmark for loans under the 2021 Credit Facility from the London Inter-Bank Offered Rate ("LIBOR") to Term Secured Overnight Financing Rate ("SOFR"). The material terms of the 2021 Credit Facility otherwise remain unchanged.

The 2021 Credit Facility provides for borrowings up to \$700.0 million, with the right to request increased capacity up to an additional \$350.0 million upon the receipt of lender commitments, for total maximum borrowings of \$1.05 billion. The 2021 Credit Facility expires on June 30, 2026. Any outstanding loans drawn under the 2021 Credit Facility are due at maturity on June 30, 2026, subject to an option to extend the maturity date. Outstanding borrowings may be repaid at any time prior to maturity. Debt issuance costs of \$1.3 million were recorded to other assets in Cadence's condensed consolidated balance sheet at the inception of the agreement and are being amortized to interest expense over the term of the 2021 Credit Facility. As of March 31, 2024, there were no outstanding borrowings under the 2021 Credit Facility.

Interest accrues on borrowings under the 2021 Credit Facility at a rate equal to, at Cadence's option, either (1) SOFR plus a margin between 0.750% and 1.250% per annum, determined by reference to the credit rating of Cadence's unsecured debt, plus a SOFR adjustment of 0.10% or (2) the base rate plus a margin between 0.000% and 0.250% per annum, determined by reference to the credit rating of Cadence's unsecured debt. Interest is payable quarterly. A commitment fee ranging from 0.070% to 0.175% is assessed on the daily average undrawn portion of revolving commitments. Borrowings bear interest at what is estimated to be current market rates of interest. Accordingly, the carrying value of the 2021 Credit Facility approximates fair value.

The 2021 Credit Facility contains customary negative covenants that, among other things, restrict Cadence's ability to incur additional indebtedness, grant liens and make certain asset dispositions. In addition, the 2021 Credit Facility contains financial covenants that require Cadence to maintain a funded debt to EBITDA ratio not greater than 3.25 to 1, with a step up to 3.75 to 1 for one year following an acquisition by Cadence of at least \$250.0 million that results in a pro forma leverage ratio between 3.00 to 1 and 3.50 to 1. As of March 31, 2024, Cadence was in compliance with all financial covenants associated with the 2021 Credit Facility.

##### 2024 Notes

In October 2024, Cadence issued a \$350.0 million aggregate principal amount of 4.375% Senior Notes due October 15, 2024 (the "2024 Notes"). Cadence received net proceeds of \$342.4 million from the issuance of the 2024 Notes, net of a discount of \$1.4 million and issuance costs of \$6.2 million. Both the discount and issuance costs are being amortized to interest expense over the term of the 2024 Notes using the effective interest method. Interest is payable in cash semi-annually in April and October. The 2024 Notes are unsecured and rank equal in right of payment to all of Cadence's existing and future senior indebtedness. As of March 31, 2024 and December 31, 2023, the carrying value of the 2024 Notes was classified as a current liability on Cadence's condensed consolidated balance sheet. As of March 31, 2024, the fair value of the 2024 Notes was approximately \$347.4 million.

Cadence may redeem the 2024 Notes, in whole or in part, at a redemption price equal to the greater of (a) 100% of the principal amount of the notes to be redeemed and (b) the sum of the present values of the remaining scheduled payments of principal and interest, plus any accrued and unpaid interest, as more particularly described in the indenture governing the 2024 Notes.

The indenture governing the 2024 Notes includes customary representations, warranties and restrictive covenants, including, but not limited to, restrictions on Cadence's ability to grant liens on assets, enter into sale and lease-back transactions, or merge, consolidate or sell assets, and also includes customary events of default.

## 2025 Term Loan

In September 2022, Cadence entered into a \$300.0 million three-year senior non-amortizing term loan facility due on September 7, 2025 with a group of lenders led by Bank of America, N.A., as administrative agent (the "2025 Term Loan"). The 2025 Term Loan is unsecured and ranks equal in right of payment to all of Cadence's unsecured indebtedness. Proceeds from the loan were used to fund Cadence's acquisition of OpenEye Scientific Software, Inc in fiscal 2022. Debt issuance costs associated with the 2025 Term Loan were not material.

Amounts outstanding under the 2025 Term Loan accrue interest at a rate equal to, at Cadence's option, either (1) Term SOFR plus a margin between 0.625% and 1.125% per annum, determined by reference to the credit rating of Cadence's unsecured debt, plus a SOFR adjustment of 0.10% or (2) base rate plus a margin between 0.000% and 0.125% per annum, determined by reference to the credit rating of Cadence's unsecured debt. As of March 31, 2024, the interest rate on the 2025 Term Loan was 6.17%. Interest is payable quarterly. Borrowings bear interest at what is estimated to be current market rates of interest. Accordingly, the carrying value of the 2025 Term Loan approximates fair value.

The 2025 Term Loan contains customary negative covenants that, among other things, restrict Cadence's ability to incur additional indebtedness, grant liens and make certain asset dispositions. In addition, the 2025 Term Loan contains a financial covenant that requires Cadence to maintain a funded debt to EBITDA ratio not greater than 3.25 to 1, with a step-up to 3.75 to 1 for one year following an acquisition by Cadence of at least \$250.0 million that results in a pro forma leverage ratio between 3.00 to 1 and 3.50 to 1. As of March 31, 2024, Cadence was in compliance with all financial covenants associated with the 2025 Term Loan.

## NOTE 5. ACQUISITIONS

On January 8, 2024, Cadence acquired all of the outstanding equity of Invecas, Inc. ("Invecas"), a provider of design engineering, embedded software and system-level solutions. The aggregate cash consideration for Cadence's acquisition of Invecas, net of cash acquired of \$23.8 million, was \$71.5 million. The acquisition adds a skilled system design engineering team to Cadence, with expertise in providing customers with custom solutions across chip design, product engineering, advanced packaging and embedded software. Subject to service and other conditions, Cadence expects to recognize expense for consideration paid to certain former Invecas shareholders, now employed by Cadence, through the first quarter of fiscal 2028.

The total purchase consideration was allocated to the assets acquired and liabilities assumed based on their respective fair values on the acquisition date as follows:

	Fair Value (In thousands)
Current assets	\$ 50,608
Goodwill	42,480
Acquired intangibles	15,500
Other long-term assets	24,402
Total assets acquired	132,990
Current liabilities	17,114
Long-term liabilities	20,635
Total liabilities assumed	37,749
Total purchase consideration	\$ 95,241

As of March 31, 2024, the allocation of purchase consideration to certain assets and liabilities was preliminary. Cadence will continue to evaluate certain estimates and assumptions, primarily related to assumed tax liabilities, during the measurement period (up to one year from the acquisition date). The allocation of purchase consideration may change materially as additional information about conditions existing at the acquisition date becomes available.

The recorded goodwill is attributed to intangible assets that do not qualify for separate recognition, including the acquired assembled workforce, and will not be deductible for tax purposes.

The definite-lived intangible assets acquired with Cadence's acquisition of Invecas include agreements and relationships of \$15.0 million and tradenames of \$0.5 million. These assets will be amortized over a weighted average life of 6.8 years.

## Pro Forma Financial Information

Cadence has not presented pro forma financial information for its acquisition of Invecas because the results of operations for Invecas are not material to Cadence's condensed consolidated financial statements.

### Acquisition-Related Transaction Costs

Transaction costs associated with acquisitions, which consist of professional fees and administrative costs, are expensed as incurred and are included in general and administrative expense in Cadence's condensed consolidated income statement. During the three months ended March 31, 2024 and March 31, 2023, transaction costs associated with acquisitions were \$9.0 million and \$2.9 million, respectively.

### NOTE 6. GOODWILL AND ACQUIRED INTANGIBLES

#### Goodwill

The changes in the carrying amount of goodwill during the three months ended March 31, 2024 were as follows:

	Gross Carrying Amount (In thousands)
Balance as of December 31, 2023	\$ 1,535,845
Goodwill resulting from acquisitions	42,480
Effect of foreign currency translation	(3,218)
Balance as of March 31, 2024	<u>\$ 1,575,107</u>

#### Acquired Intangibles, Net

Acquired intangibles as of March 31, 2024 were as follows:

	Gross Carrying Amount	Accumulated Amortization (In thousands)	Acquired Intangibles, Net
Existing technology	\$ 329,816	\$ (150,929)	\$ 178,887
Agreements and relationships	203,417	(56,766)	146,651
Tradenames, trademarks and patents	13,899	(4,793)	9,106
Total acquired intangibles	<u>\$ 547,132</u>	<u>\$ (212,488)</u>	<u>\$ 334,644</u>

During the three months ended March 31, 2024, Cadence completed certain projects previously included in in-process technology and transferred \$6.8 million to existing technology.

Acquired intangibles as of December 31, 2023 were as follows:

	Gross Carrying Amount	Accumulated Amortization (In thousands)	Acquired Intangibles, Net
Existing technology	\$ 325,710	\$ (141,659)	\$ 184,051
Agreements and relationships	198,259	(61,395)	136,864
Tradenames, trademarks and patents	13,460	(4,332)	9,128
Total acquired intangibles with definite lives	<u>\$ 537,429</u>	<u>\$ (207,386)</u>	<u>\$ 330,043</u>
In-process technology	6,800	—	6,800
Total acquired intangibles	<u>\$ 544,229</u>	<u>\$ (207,386)</u>	<u>\$ 336,843</u>

Amortization expense from existing technology and maintenance agreements is included in cost of product and maintenance. Amortization expense for the three months ended March 31, 2024 and March 31, 2023 by condensed consolidated income statement caption was as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Cost of product and maintenance	\$ 11,348	\$ 10,260
Amortization of acquired intangibles	5,407	4,267
Total amortization of acquired intangibles	<u>\$ 16,755</u>	<u>\$ 14,527</u>

As of March 31, 2024, the estimated amortization expense for intangible assets with definite lives was as follows for the following five fiscal years and thereafter:

	(In thousands)
2024 - remaining period	\$ 50,873
2025	54,698
2026	49,102
2027	46,595
2028	42,441
2029	27,957
Thereafter	62,978
Total estimated amortization expense	<u>\$ 334,644</u>

#### NOTE 7. STOCK-BASED COMPENSATION

Stock-based compensation expense is reflected in Cadence's condensed consolidated income statements for the three months ended March 31, 2024 and March 31, 2023 as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Cost of product and maintenance	\$ 1,280	\$ 1,066
Cost of services	1,629	1,357
Marketing and sales	17,836	15,091
Research and development	53,637	44,322
General and administrative	13,747	12,452
Total stock-based compensation expense	<u>\$ 88,129</u>	<u>\$ 74,288</u>

Cadence had total unrecognized compensation expense related to stock option and restricted stock grants of \$567.5 million as of March 31, 2024, which will be recognized over a weighted average vesting period of 2.0 years.

#### NOTE 8. STOCK REPURCHASE PROGRAM

In August 2023, Cadence's Board of Directors increased the prior authorization to repurchase shares of Cadence common stock by authorizing an additional \$1.0 billion. The actual timing and amount of repurchases are subject to business and market conditions, corporate and regulatory requirements, stock price, acquisition opportunities and other factors.

As of March 31, 2024, approximately \$1.3 billion of Cadence's share repurchase authorization remained available to repurchase shares of Cadence common stock.

The shares repurchased under Cadence's repurchase authorizations and the total cost of repurchased shares, including commissions, during the three months ended March 31, 2024 and March 31, 2023 were as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Shares repurchased	425	668
Total cost of repurchased shares	\$ 125,006	\$ 125,010

**NOTE 9. OTHER INCOME, NET**

Cadence's other income, net, for the three months ended March 31, 2024 and March 31, 2023 were as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Interest income	\$ 9,512	\$ 6,373
Gains on investments	55,394	123
Gains on securities in Non-Qualified Deferred Compensation ("NQDC") trust	4,588	3,150
Losses on foreign exchange	(331)	(1,043)
Other expense, net	(384)	(319)
Total other income, net	<u>\$ 68,779</u>	<u>\$ 8,284</u>

For additional information relating to Cadence's investments and the gains on investments, see Note 11 in the notes to condensed consolidated financial statements.

**NOTE 10. NET INCOME PER SHARE**

Basic net income per share is computed by dividing net income during the period by the weighted average number of shares of common stock outstanding during that period, less unvested restricted stock awards. Diluted net income per share is impacted by equity instruments considered to be potential common shares, if dilutive, computed using the treasury stock method of accounting.

The calculations for basic and diluted net income per share for the three months ended March 31, 2024 and March 31, 2023 are as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands, except per share amounts)	
Net income	<u>\$ 247,643</u>	<u>\$ 241,804</u>
Weighted average common shares used to calculate basic net income per share	269,606	269,501
Stock-based awards	3,938	3,658
Weighted average common shares used to calculate diluted net income per share	<u>273,544</u>	<u>273,159</u>
Net income per share - basic	<u>\$ 0.92</u>	<u>\$ 0.90</u>
Net income per share - diluted	<u>\$ 0.91</u>	<u>\$ 0.89</u>

The following table presents shares of Cadence's common stock outstanding for the three months ended March 31, 2024 and March 31, 2023 that were excluded from the computation of diluted net income per share because the effect of including these shares in the computation of diluted net income per share would have been anti-dilutive:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Long-term market-based awards	—	1,826
Options to purchase shares of common stock	59	332
Non-vested shares of restricted stock	8	50
Total potential common shares excluded	<u>67</u>	<u>2,208</u>



**NOTE 11. INVESTMENTS****Investments in Equity Securities***Marketable Equity Investments*

Cadence's investments in marketable equity securities consist of purchased shares of publicly held companies and are included in prepaid expenses and other in Cadence's condensed consolidated balance sheets. Changes in the fair value of these investments are recorded to other income (expense), net in Cadence's condensed consolidated income statements. The carrying value of marketable equity investments was \$93.6 million and \$80.6 million as of March 31, 2024 and December 31, 2023, respectively.

*Non-Marketable Equity Investments*

Cadence's investments in non-marketable equity securities generally consist of stock or other instruments of privately held entities and are included in other assets on Cadence's condensed consolidated balance sheets. Cadence holds a 16% interest in a privately held company that is accounted for using the equity method of accounting. The carrying value of this investment was \$109.6 million and \$111.1 million as of March 31, 2024 and December 31, 2023, respectively.

Cadence records its proportionate share of net income from the investee, offset by amortization of basis differences, to other income (expense), net in Cadence's condensed consolidated income statements. For the three months ended March 31, 2024 and March 31, 2023, Cadence recognized losses of \$0.4 million and \$0.1 million, respectively.

Cadence also holds other non-marketable investments in privately held companies where Cadence does not have the ability to exercise significant influence and the fair value of the investments is not readily determinable. The carrying value of these investments was \$27.1 million and \$27.2 million as of March 31, 2024 and December 31, 2023, respectively. Gains and losses on these investments were not material to Cadence's condensed consolidated financial statements for the periods presented.

The portion of gains and losses included in Cadence's condensed consolidated income statements related to equity securities still held at the end of the period were as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Net gains recognized on equity securities	\$ 55,398	\$ 123
Less: Net gains recognized on equity securities sold	(20,367)	—
Net gains recognized on equity securities still held	<u>\$ 35,031</u>	<u>\$ 123</u>

**Investments in Debt Securities**

The following is a summary of Cadence's available-for-sale debt securities recorded within prepaid expenses and other on its condensed consolidated balance sheets:

	As of March 31, 2024			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
	(In thousands)			
Available-for-sale debt securities				
Mortgage-backed and asset-backed securities	\$ 51,268	\$ 206	\$ (466)	\$ 51,008
Total available-for-sale securities	<u>\$ 51,268</u>	<u>\$ 206</u>	<u>\$ (466)</u>	<u>\$ 51,008</u>
	As of December 31, 2023			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
	(In thousands)			
Available-for-sale debt securities				
Mortgage-backed and asset-backed securities	\$ 49,653	\$ 375	\$ (243)	\$ 49,785
Total available-for-sale securities	<u>\$ 49,653</u>	<u>\$ 375</u>	<u>\$ (243)</u>	<u>\$ 49,785</u>

Gross unrealized gains and losses are recorded as a component of accumulated other comprehensive loss on Cadence's condensed consolidated balance sheets.

As of March 31, 2024, the fair values of available-for-sale debt securities, by remaining contractual maturity, were as follows:

	(In thousands)
Due within 1 year	\$ —
Due after 1 year through 5 years	10,856
Due after 5 years through 10 years	16,564
Due after 10 years	23,588
Total	<u>\$ 51,008</u>

As of March 31, 2024, Cadence did not intend to sell any of its available-for-sale debt securities in an unrealized loss position, and it was more likely than not that Cadence will hold the securities until maturity or a recovery of the cost basis.

## NOTE 12. FAIR VALUE

Inputs to valuation techniques are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect Cadence's market assumptions. These two types of inputs have created the following fair value hierarchy:

- Level 1 – Quoted prices for identical instruments in active markets;
- Level 2 – Quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-derived valuations in which all significant inputs and significant value drivers are observable in active markets; and
- Level 3 – Valuations derived from valuation techniques in which one or more significant inputs or significant value drivers are unobservable.

This hierarchy requires Cadence to minimize the use of unobservable inputs and to use observable market data, if available, when determining fair value. Cadence recognizes transfers between levels of the hierarchy based on the fair values of the respective financial instruments at the end of the reporting period in which the transfer occurred. There were no transfers between levels of the fair value hierarchy during the three months ended March 31, 2024.

On a quarterly basis, Cadence measures at fair value certain financial assets and liabilities. The fair value of financial assets and liabilities was determined using the following levels of inputs as of March 31, 2024 and December 31, 2023:

	Fair Value Measurements as of March 31, 2024			
	Total	Level 1	Level 2	Level 3
	(In thousands)			
<u>Assets</u>				
Cash equivalents:				
Money market funds	\$ 472,883	\$ 472,883	\$ —	\$ —
Marketable securities:				
Marketable equity securities	93,591	93,591	—	—
Mortgage-backed and asset-backed securities	51,008	—	51,008	—
Securities held in NQDC trust	81,464	81,464	—	—
Total Assets	<u>\$ 698,946</u>	<u>\$ 647,938</u>	<u>\$ 51,008</u>	<u>\$ —</u>
	Total	Level 1	Level 2	Level 3
	(In thousands)			
<u>Liabilities</u>				
Foreign currency exchange contracts	\$ 345	\$ —	\$ 345	\$ —
Total Liabilities	<u>\$ 345</u>	<u>\$ —</u>	<u>\$ 345</u>	<u>\$ —</u>

	Fair Value Measurements as of December 31, 2023			
	Total	Level 1	Level 2	Level 3
	(In thousands)			
<u>Assets</u>				
Cash equivalents:				
Money market funds	\$ 490,983	\$ 490,983	\$ —	\$ —
Marketable securities:				
Marketable equity securities	80,575	80,575	—	—
Mortgage-backed and asset-backed securities	49,785	—	49,785	—
Securities held in NQDC trust	75,671	75,671	—	—
Foreign currency exchange contracts	9,327	—	9,327	—
Total Assets	\$ 706,341	\$ 647,229	\$ 59,112	\$ —

As of December 31, 2023, Cadence did not have any financial liabilities requiring a recurring fair value measurement.

#### Level 1 Measurements

Cadence's cash equivalents held in money market funds, marketable equity securities and the trading securities held in Cadence's NQDC trust are measured at fair value using Level 1 inputs.

#### Level 2 Measurements

The valuation techniques used to determine the fair value of Cadence's investments in marketable debt securities, foreign currency forward exchange contracts and 2024 Notes are classified within Level 2 of the fair value hierarchy. For additional information relating to Cadence's debt arrangements, see Note 4 in the notes to condensed consolidated financial statements.

#### Level 3 Measurements

During the three months ended March 31, 2024, Cadence acquired intangible assets of \$15.5 million. The fair value of the intangible assets acquired was determined using variations of the income approach that utilizes unobservable inputs classified as Level 3 measurements.

For agreements and relationships, the fair value was determined by using the multi-period excess earnings method. This method reflects the present value of the projected cash flows that are expected to be generated from existing customers, less charges representing the contribution of other assets to those cash flows. Projected income from existing customer relationships was determined using a customer retention rate of 85%. The present value of operating cash flows from existing customers was determined using a discount rate of 14.0%.

#### NOTE 13. INVENTORY

Cadence's inventory balances as of March 31, 2024 and December 31, 2023 were as follows:

	As of	
	March 31, 2024	December 31, 2023
	(In thousands)	
Inventories:		
Raw materials	\$ 163,531	\$ 162,754
Work-in-process	626	—
Finished goods	21,627	18,907
Total inventories	\$ 185,784	\$ 181,661

## **NOTE 14. COMMITMENTS AND CONTINGENCIES**

### **Acquisition of BETA CAE Systems International AG**

On March 2, 2024, Cadence entered into a definitive agreement to acquire all of the outstanding equity of BETA CAE Systems International AG ("BETA CAE"), a system analysis platform provider of multi-domain, engineering simulation solutions. The addition of BETA CAE's technologies and talent is intended to accelerate Cadence's Intelligent System Design™ strategy by expanding its multiphysics system analysis portfolio and enabling entry into the structural analysis space. The acquisition is expected to close during Cadence's second quarter of fiscal 2024.

At close, Cadence will pay aggregate consideration based on an enterprise value of \$1.24 billion (the "Purchase Price"), with 60% of the Purchase Price to be paid in cash and 40% to be paid through the issuance of Cadence common stock to current BETA CAE shareholders. Cadence intends to fund the cash consideration through a combination of cash on hand and borrowings under existing and/or new debt facilities.

The agreement contains warranties, covenants, closing conditions and indemnities customary for acquisitions of this nature. Among other conditions, the transaction is conditioned on the expiration or termination of the applicable waiting period under the Hart-Scott Rodino Antitrust Improvements Act of 1976, as amended, and receipt of other required approvals under antitrust and foreign direct investment laws of certain other specified jurisdictions.

The agreement also provides for customary termination rights for the parties, including the right to terminate the agreement due to the failure to obtain required regulatory approvals on or prior to May 31, 2024 (subject to two automatic extensions until November 29, 2024, the "Longstop Date"). Under the terms of the agreement, Cadence will be required to pay a reverse termination fee of up to \$60 million in the event the agreement is terminated due to the failure to obtain such required regulatory approvals on or prior to the Longstop Date.

### **Legal Proceedings**

From time to time, Cadence is involved in various disputes and litigation that arise in the ordinary course of business. These include disputes and legal proceedings related to intellectual property, indemnification obligations, mergers and acquisitions, licensing, contracts, customers, products, distribution and other commercial arrangements and employee relations matters. Cadence is also subject from time to time to inquiries, investigations and regulatory proceedings involving governments and regulatory agencies in the jurisdictions in which Cadence operates. At least quarterly, Cadence reviews the status of each significant matter and assesses its potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount or the range of loss can be estimated, Cadence accrues a liability for the estimated loss. Legal proceedings are subject to uncertainties, and the outcomes are difficult to predict. Because of such uncertainties, accruals are based on Cadence's judgments using the best information available at the time. As additional information becomes available, Cadence reassesses the potential liability related to pending claims and litigation matters and may revise estimates.

### **Tax Proceedings**

In December 2022, Cadence received a tax audit assessment of approximately \$49 million from the Korea taxing authorities for years 2017-2019. The tax audit assessment is primarily related to value-added taxes. Cadence was required to pay these assessed taxes, prior to being allowed to contest or litigate the assessment in administrative and judicial proceedings. The assessment was paid by Cadence in January 2023 and recorded as a component of other assets in the condensed consolidated balance sheets. Payment of this amount is not an admission that Cadence is subject to such taxes, and Cadence continues to defend its position vigorously. Cadence did not record a reserve for this contingency as of March 31, 2024 or December 31, 2023 as Cadence does not believe a loss is probable. The entire dispute resolution process may take up to eight years.

### **Other Contingencies**

Cadence provides its customers with a warranty on sales of hardware products, generally for a 90-day period. Cadence did not incur any significant costs related to warranty obligations during the three months ended March 31, 2024 and March 31, 2023.

Cadence's product license and services agreements typically include a limited indemnification provision for claims from third parties relating to Cadence's intellectual property. If the potential loss from any indemnification claim is considered probable and the amount or the range of loss can be estimated, Cadence accrues a liability for the estimated loss.

Cadence did not incur any material losses from indemnification claims during the three months ended March 31, 2024 and March 31, 2023.

**NOTE 15. ACCUMULATED OTHER COMPREHENSIVE LOSS**

Cadence's accumulated other comprehensive loss is comprised of the aggregate impact of foreign currency translation gains and losses, changes in defined benefit plan liabilities and unrealized gains and losses on investments, and is presented in Cadence's condensed consolidated statements of comprehensive income.

Accumulated other comprehensive loss was comprised of the following as of March 31, 2024 and December 31, 2023:

	As of	
	March 31, 2024	December 31, 2023
	(In thousands)	
Foreign currency translation loss	\$ (103,308)	\$ (90,678)
Changes in defined benefit plan liabilities	(4,229)	(4,208)
Unrealized gains (losses) on investments	(260)	132
Total accumulated other comprehensive loss	<u>\$ (107,797)</u>	<u>\$ (94,754)</u>

For the three months ended March 31, 2024 and March 31, 2023, there were no significant amounts related to foreign currency translation loss, changes in defined benefit plan liabilities or unrealized gains and losses on investments reclassified from accumulated other comprehensive loss to net income.

**NOTE 16. SEGMENT REPORTING**

Segment reporting is based on the "management approach," following the method that management organizes the company's reportable segments for which separate financial information is made available to, and evaluated regularly by, the chief operating decision maker in allocating resources and in assessing performance. Cadence's chief operating decision maker is its CEO, who reviews Cadence's consolidated results as one operating segment. In making operating decisions, the CEO primarily considers consolidated financial information, accompanied by disaggregated information about revenues by geographic region.

Outside the United States, Cadence markets and supports its products and services primarily through its subsidiaries. Revenue is attributed to geography based upon the country in which the product is used, or services are delivered. Long-lived assets are attributed to geography based on the country where the assets are located.

The following table presents a summary of revenue by geography for the three months ended March 31, 2024 and March 31, 2023:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In thousands)	
Americas:		
United States	\$ 435,523	\$ 434,346
Other Americas	27,347	16,118
Total Americas	462,870	450,464
Asia:		
China	117,229	177,556
Other Asia	208,531	183,962
Total Asia	325,760	361,518
Europe, Middle East and Africa	169,056	154,270
Japan	51,417	55,438
Total	<u>\$ 1,009,103</u>	<u>\$ 1,021,690</u>

The following table presents a summary of long-lived assets by geography as of March 31, 2024 and December 31, 2023:

	As of	
	March 31, 2024	December 31, 2023
	(In thousands)	
Americas:		
United States	\$ 404,492	\$ 383,807
Other Americas	9,465	10,219
Total Americas	413,957	394,026
Asia:		
China	27,949	29,598
Other Asia	84,454	71,365
Total Asia	112,403	100,963
Europe, Middle East and Africa	55,583	56,449
Japan	2,000	2,572
Total	\$ 583,943	\$ 554,010

## **Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations**

*The following discussion should be read in conjunction with the condensed consolidated financial statements and notes thereto included in this Quarterly Report on Form 10-Q (this "Quarterly Report") and in conjunction with our Annual Report on Form 10-K for the fiscal year ended December 31, 2023 (our "Annual Report"). This Quarterly Report contains statements that are not historical in nature, are predictive, or that depend upon or refer to future events or conditions or contain other forward-looking statements. Statements including, but not limited to, statements regarding the extent, timing and mix of future revenues and customer demand; the deployment of our products and services; the impact of the macroeconomic and geopolitical environment, including but not limited to, expanded trade control laws and regulations, the conflicts in and around Ukraine, the Middle East and other areas of the world, volatility in foreign currency exchange rates, inflation and the rise in interest rates; the impact of government actions; future costs, expenses, tax rates and uses of cash; pending legal, administrative and tax proceedings; restructuring actions and associated benefits; pending acquisitions, the accounting for acquisitions and the integration of acquired businesses; and other statements using words such as "anticipates," "believes," "could," "estimates," "expects," "forecasts," "intends," "may," "plans," "projects," "should," "targets," "will" and "would," and words of similar import and the negatives thereof, constitute forward-looking statements. These statements are predictions based upon our current expectations about future events. Actual results could vary materially as a result of certain factors, including, but not limited to, those expressed in these statements. We refer you to the "Results of Operations," "Quantitative and Qualitative Disclosures About Market Risk," and "Liquidity and Capital Resources" sections contained in this Quarterly Report, the "Risk Factors" section contained in our Annual Report, and the risks discussed in our other Securities and Exchange Commission ("SEC") filings, which identify important risks and uncertainties that could cause actual results to differ materially from those contained in the forward-looking statements.*

*We urge you to consider these factors carefully in evaluating the forward-looking statements contained in this Quarterly Report. All subsequent written or oral forward-looking statements attributable to our company or persons acting on our behalf are expressly qualified in their entirety by these cautionary statements. The forward-looking statements included in this Quarterly Report are made only as of the date of this Quarterly Report. We disclaim any obligation to update these forward-looking statements, except as required by law.*

### **Business Overview**

Cadence is a leading pioneer in electronic system design software and intellectual property ("IP"), building upon more than 35 years of computational software expertise. Since our inception, we have been at the forefront of technology innovation, solving highly complex challenges in the semiconductor and electronic systems industries. We are a global company that provides computational software, special-purpose computational hardware, IP and services to multiple vertical sectors including automotive, artificial intelligence ("AI"), aerospace and defense, high-performance and mobile computing, hyperscalers, wireless communications, industrial internet of things and life sciences.

Our Intelligent System Design™ strategy allows us to deliver essential computational software, hardware and IP that our customers use to turn their design concepts into reality. Our customers include many of the world's most innovative companies that design and build highly sophisticated semiconductor and electronic systems found in products used in everyday life. Our Intelligent System Design strategy allows us to quickly adapt to our customers' dynamic design requirements. Our products and services enable our customers to develop complex and innovative semiconductor and electronic systems, so demand for our technology and expertise is driven by increasing complexity and our customers' need to invest in new designs and products that are highly differentiated. Historically, the industry that provided the tools used by IC engineers was referred to as Electronic Design Automation ("EDA"). Today, our offerings include and extend beyond EDA.

We group our products into categories related to major design activities:

- Custom IC Design and Simulation;
- Digital IC Design and Signoff;
- Functional Verification;
- IP; and
- System Design and Analysis.

For additional information about our products, see the discussion in Item 1, "Business," under the heading "Products and Product Categories," in our Annual Report.

Management uses certain performance indicators to manage our business, including revenue, certain elements of operating expenses and cash flow from operations, and we describe these items further below under the headings "Results of Operations" and "Liquidity and Capital Resources."

### **Recent Acquisition**

Consistent with our Intelligent System Design strategy, during the first quarter of fiscal 2024, we completed our acquisition of Invecas, Inc. ("Invecas"), a leading provider of design engineering, embedded software and system-level solutions. We believe the addition of a skilled engineering team with vast experience in delivering end-to-end system solutions with deep expertise in advanced nodes, mixed-signal, verification, embedded software, packaging and turnkey custom silicon production will enhance our ability to pursue attractive opportunities in the markets we serve. Revenue and cost of revenue associated with contracts assumed with our acquisition of Invecas is primarily classified as services revenue and cost of services in our condensed consolidated income statements.

## Macroeconomic and Geopolitical Environment

Because we operate globally, our business is subject to the effects of economic downturns or recessions in the regions in which we do business, volatility in foreign currency exchange rates relative to the U.S. dollar, the rise in interest rates, expanded trade control laws and regulations, and geopolitical conflicts.

We have been impacted by the continued expansion of trade control laws and regulations, including certain export control restrictions concerning advanced node IC production in China, the inclusion of additional Chinese technology companies on the Bureau of Industry and Security "Entity List" and regulations governing the sale of certain technologies. Based on our current assessments, we expect the impact of these expanded trade control laws and regulations on our business to be limited.

We also continuously monitor geopolitical conflicts around the world, including the ongoing conflict between Russia and Ukraine and the conflict in the Middle East, and assess their impact on our business. These conflicts have not materially limited our ability to develop or support our products and have not had a material impact on our results of operations, financial condition, liquidity or cash flows.

While our business model provides some resilience against these factors, we will continue to monitor the direct and indirect impacts of these or similar circumstances on our business and financial results. For additional information on the potential impact of other macroeconomic and geopolitical conditions on our business, see the "Risk Factors" section in our Annual Report. For additional information on the potential impact of foreign currency exchange rates and interest rates on our business, see the "Quantitative and Qualitative Disclosures About Market Risk" section of this Quarterly Report.

## Critical Accounting Estimates

In preparing our condensed consolidated financial statements, we make assumptions, judgments and estimates that can have a significant impact on our revenue, operating income and net income, as well as on the value of certain assets and liabilities on our condensed consolidated balance sheets. We base our assumptions, judgments and estimates on historical experience and various other factors that we believe to be reasonable under the circumstances. Actual results could differ materially from these estimates under different assumptions or conditions. At least quarterly, we evaluate our assumptions, judgments and estimates, and make changes as deemed necessary.

For additional information about our critical accounting estimates, see the discussion in Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations," under the heading "Critical Accounting Estimates" in our Annual Report.

## New Accounting Standards

For additional information about the adoption of new accounting standards, see Note 1 in the notes to condensed consolidated financial statements.

## Results of Operations

Financial results for the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, reflect the following:

- Growth in revenue from our software, services and IP offerings;
- Decreased revenue from our emulation and prototyping hardware offerings;
- Continued investment in research and development activities and technical sales support, including headcount from acquisitions;
- Incremental costs for professional services associated with acquisitions; and
- Gains from our investments in equity securities.

### Revenue

We primarily generate revenue from licensing our software and IP, selling or leasing our emulation and prototyping hardware technology, providing maintenance for our software, hardware and IP, providing engineering services and earning royalties generated from the use of our IP. The timing of our revenue is significantly affected by the mix of software, hardware and IP products generating revenue in any given period and whether the revenue is recognized over time or at a point in time, upon completion of delivery.

Recurring revenue includes revenue recognized over time from our software arrangements, services, royalties, maintenance on IP licenses and hardware, and operating leases of hardware. Recurring revenue also includes revenue recognized at varying points in time over the term of other arrangements with non-cancelable commitments, whereby the customer commits to a fixed dollar amount over a specified period of time that can be used to purchase from a list of products or services.

The remainder of our revenue is recognized at a point in time and is characterized as up-front revenue. Up-front revenue is primarily generated by our sales of emulation and prototyping hardware and individual IP licenses. The percentage of our recurring and up-front revenue and fluctuations in revenue within our geographies are impacted by delivery of hardware and IP products to our customers in any single fiscal period.



The following table shows the percentage of our revenue that is classified as recurring or up-front for the three months ended March 31, 2024 and March 31, 2023:

	Three Months Ended	
	March 31, 2024	March 31, 2023
Revenue recognized over time	87 %	77 %
Revenue from arrangements with non-cancelable commitments	3 %	3 %
Recurring revenue	90 %	80 %
Up-front revenue	10 %	20 %
Total	100 %	100 %

While the percentage of revenue characterized as recurring compared to revenue characterized as up-front may vary between fiscal quarters, the overall mix of revenue is relatively consistent on an annual basis or over the course of twelve consecutive months. The following table shows the percentage of recurring revenue for the twelve-month periods ending concurrently with our five most recent fiscal quarters:

	Trailing Twelve Months Ended				
	March 31, 2024	December 31, 2023	September 30, 2023	June 30, 2023	March 31, 2023
Recurring revenue	87 %	84 %	84 %	84 %	84 %
Up-front revenue	13 %	16 %	16 %	16 %	16 %
Total	100 %	100 %	100 %	100 %	100 %

For additional information about the fluctuations in our revenue, see the discussion under the heading "Revenue by Period" below.

#### Revenue by Period

The following table shows our revenue for the three months ended March 31, 2024 and March 31, 2023 and the change in revenue between periods:

	Three Months Ended		Change	
	March 31, 2024	March 31, 2023	Amount	Percentage
(In millions, except percentages)				
Product and maintenance	\$ 913.4	\$ 963.7	\$ (50.3)	(5) %
Services	95.7	58.0	37.7	65 %
Total revenue	\$ 1,009.1	\$ 1,021.7	\$ (12.6)	(1) %

Our revenue in any given period is significantly affected by the mix of software, hardware and IP products generating revenue and whether the revenue is recognized over time or at a point in time, upon completion of delivery. During the three months ended March 31, 2023, hardware installations were relatively high in comparison to historical levels due to increased production capacity and our ability to fulfill customer orders that had been subject to longer than normal lead times. As a result, up-front revenue from our emulation and prototyping offerings classified as product and maintenance revenue decreased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023.

The decrease in up-front revenue from our emulation and prototyping hardware offerings was partially offset by growth in revenue from software driven by new and existing customers' continued investment in complex designs for their products, including the design of electronic systems for consumer, hyperscale computing, mobile, communications, automotive, aerospace and defense, industrial and life sciences.

Services revenue increased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to increased revenue from our Cadence-managed cloud-based and design service offerings. Services revenue may fluctuate from period to period based on the timing of fulfillment of our services and IP performance obligations.

No single customer accounted for 10% or more of total revenue during the three months ended March 31, 2024 or March 31, 2023.

### Revenue by Product Category

The following table shows the percentage of revenue contributed by each of our five product categories and services for the past five consecutive quarters:

	Three Months Ended				
	March 31, 2024	December 31, 2023	September 30, 2023	June 30, 2023	March 31, 2023
Custom IC Design and Simulation	22 %	22 %	22 %	22 %	20 %
Digital IC Design and Signoff	29 %	29 %	28 %	27 %	25 %
Functional Verification, including Emulation and Prototyping Hardware	25 %	24 %	26 %	27 %	32 %
IP	12 %	13 %	11 %	11 %	11 %
System Design and Analysis	12 %	12 %	13 %	13 %	12 %
Total	100 %	100 %	100 %	100 %	100 %

Revenue by product category fluctuates from period to period based on demand for our products and services, our available resources and our ability to deliver and support them. For example, during the first quarter of fiscal 2023, we experienced growth in our Functional Verification product category due to increased production capacity and our ability to fulfill ongoing customer demand for our emulation and prototyping hardware. Certain of our licensing arrangements allow customers the ability to remix among software products. Additionally, we have arrangements with customers that include a combination of our products, with the actual product selection and number of licensed users to be determined at a later date. For these arrangements, we estimate the allocation of the revenue to product categories based upon the expected usage of our products. The actual usage of our products by these customers may differ and, if that proves to be the case, the revenue allocation in the table above would differ.

### Revenue by Geography

	Three Months Ended		Change	
	March 31, 2024	March 31, 2023	Amount	Percentage
(In millions, except percentages)				
United States	\$ 435.5	\$ 434.3	\$ 1.2	— %
Other Americas	27.4	16.1	11.3	70 %
China	117.2	177.6	(60.4)	(34) %
Other Asia	208.5	184.0	24.5	13 %
Europe, Middle East and Africa ("EMEA")	169.1	154.3	14.8	10 %
Japan	51.4	55.4	(4.0)	(7) %
Total revenue	\$ 1,009.1	\$ 1,021.7	\$ (12.6)	(1) %

During the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, revenue in the United States and China was impacted by the decrease in revenue from our emulation and prototyping hardware offerings. Growth in revenue from our software offerings contributed to growth in Other Asia and EMEA.

### Revenue by Geography as a Percent of Total Revenue

	Three Months Ended	
	March 31, 2024	March 31, 2023
United States	43 %	42 %
Other Americas	3 %	2 %
China	12 %	17 %
Other Asia	20 %	18 %
EMEA	17 %	15 %
Japan	5 %	6 %
Total	100 %	100 %

Most of our revenue is transacted in the U.S. dollar. However, certain revenue transactions are denominated in foreign currencies. For an additional description of how changes in foreign exchange rates affect our condensed consolidated financial statements, see the discussion under Item 3, "Quantitative and Qualitative Disclosures About Market Risk – Foreign Currency Risk."

#### Cost of Revenue

	Three Months Ended		Change	
	March 31, 2024	March 31, 2023	Amount	Percentage
(In millions, except percentages)				
Cost of product and maintenance	\$ 75.4	\$ 100.2	\$ (24.8)	(25) %
Cost of services	49.8	24.2	25.6	106 %

#### Cost of Product and Maintenance

Cost of product and maintenance includes costs associated with the sale and lease of our emulation and prototyping hardware and licensing of our software and IP products, certain employee salary and benefits and other employee-related costs, cost of our customer support services, amortization of technology-related and maintenance-related acquired intangibles, costs of technical documentation and royalties payable to third-party vendors. Cost of product and maintenance depends primarily on our hardware product sales in any given period, but is also affected by employee salary and benefits and other employee-related costs, reserves for inventory, and the timing and extent to which we acquire intangible assets, license third-party technology or IP, and sell our products that include such acquired or licensed technology or IP.

A summary of cost of product and maintenance is as follows:

	Three Months Ended		Change	
	March 31, 2024	March 31, 2023	Amount	Percentage
(In millions, except percentages)				
Product and maintenance-related costs	\$ 64.1	\$ 89.9	\$ (25.8)	(29) %
Amortization of acquired intangibles	11.3	10.3	1.0	10 %
Total cost of product and maintenance	<u>\$ 75.4</u>	<u>\$ 100.2</u>	<u>\$ (24.8)</u>	<u>(25) %</u>

The changes in product and maintenance-related costs for the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, were due to the following:

	Change Three Months Ended
(In millions)	
Emulation and prototyping hardware costs	\$ (26.2)
Other items	0.4
Total change in product and maintenance-related costs	<u>\$ (25.8)</u>

Costs associated with our emulation and prototyping hardware products include components, assembly, testing, applicable reserves and overhead. These costs make our cost of emulation and prototyping hardware products higher, as a percentage of revenue, than our cost of software and IP products. Emulation and prototyping hardware costs decreased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to decreased installations of emulation and prototyping hardware products.

Amortization of acquired intangibles included in cost of product and maintenance may fluctuate from period to period depending on the timing of newly acquired assets relative to assets becoming fully amortized in any given period.

#### Cost of Services

Cost of services primarily includes employee salary, benefits and other employee-related costs to perform work on revenue-generating projects, costs to maintain the infrastructure necessary to manage a services organization, and direct costs associated with certain design services. Cost of services may fluctuate from period to period based on our utilization of design services engineers on revenue-generating projects rather than internal development projects and the timing of design service projects being completed.

## Operating Expenses

Our operating expenses include marketing and sales, research and development, and general and administrative expenses. Factors that tend to cause our operating expenses to fluctuate include changes in the number of employees due to hiring and acquisitions, our annual mid-year promotion and pay raise cycle, stock-based compensation, foreign exchange rate movements, acquisition-related costs, volatility in variable compensation programs that are driven by operating results, and charitable donations.

Many of our operating expenses are transacted in various foreign currencies. We recognize lower expenses in periods when the United States dollar strengthens in value against other currencies and we recognize higher expenses when the United States dollar weakens against other currencies. For an additional description of how changes in foreign exchange rates affect our condensed consolidated financial statements, see the discussion in Item 3, "Quantitative and Qualitative Disclosures About Market Risk – Foreign Currency Risk."

Our operating expenses for the three months ended March 31, 2024 and March 31, 2023 were as follows:

	Three Months Ended		Change	
	March 31, 2024	March 31, 2023	Amount	Percentage
	(In millions, except percentages)			
Marketing and sales	\$ 180.6	\$ 166.7	\$ 13.9	8 %
Research and development	379.0	350.3	28.7	8 %
General and administrative	68.7	53.5	15.2	28 %
Total operating expenses	<u>\$ 628.3</u>	<u>\$ 570.5</u>	<u>\$ 57.8</u>	<u>10 %</u>

Our operating expenses, as a percentage of total revenue, for the three months ended March 31, 2024 and March 31, 2023 were as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
Marketing and sales	18 %	16 %
Research and development	37 %	35 %
General and administrative	7 %	5 %
Total operating expenses	<u>62 %</u>	<u>56 %</u>

### Marketing and Sales

The increase in marketing and sales expense for the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, was due to the following:

	Change Three Months Ended
	(In millions)
Salary, benefits and other employee-related costs	\$ 10.5
Stock-based compensation	2.7
Facilities and other infrastructure costs	2.1
Marketing programs and events	(2.2)
Other items	0.8
Total change in marketing and sales expense	<u>\$ 13.9</u>

Salary, benefits and other employee-related costs and stock-based compensation included in marketing and sales expense increased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to our continued investment in attracting and retaining talent dedicated to technical sales support, including additional headcount from the acquisitions completed in both fiscal 2023 and the first quarter of fiscal 2024. We expect to continue attracting and retaining talent dedicated to technical sales support through hiring and acquisitions.

### Research and Development

The increase in research and development expense for the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, was due to the following:

	Change Three Months Ended (In millions)
Salary, benefits and other employee-related costs	\$ 13.4
Stock-based compensation	9.3
Facilities and other infrastructure costs	4.3
Other items	1.7
Total change in research and development expense	\$ 28.7

Salary, benefits and other employee-related costs and stock-based compensation included in research and development expense increased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to our continued investment in attracting and retaining talent for research and development activities, including additional headcount from the acquisitions completed in fiscal 2023. Facilities and other infrastructure costs included in research and development expense increased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to our growing workforce. We expect to continue attracting and retaining talent dedicated to research and development activities through hiring and acquisitions.

### General and Administrative

The increase in general and administrative expense for the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, was due to the following:

	Change Three Months Ended (In millions)
Professional services	\$ 6.1
Foreign service tax	5.0
Salary, benefits and other employee-related costs	3.1
Other items	1.0
Total change in general and administrative expense	\$ 15.2

Professional services increased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to increased legal and consulting services associated with acquisition-related activities. Also during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, we experienced an increase in foreign service tax, primarily because we did not benefit from any foreign service tax refunds as we did during the same period in fiscal 2023.

### Restructuring

We have initiated restructuring plans in recent years, most recently in fiscal 2023, to better align our resources with our business strategy. Because the restructuring charges and related benefits are derived from management's estimates made during the formulation of the restructuring plans, based on then-currently available information, our restructuring plans may not achieve the benefits anticipated on the timetable or at the level contemplated. Additional actions, including further restructuring of our operations, may be required in the future.

### Operating Margin

Operating margin represents income from operations as a percentage of total revenue. Our operating margin for the three months ended March 31, 2024, and the three months ended March 31, 2023 was as follows:

	Three Months Ended	
	March 31, 2024	March 31, 2023
Operating margin	25 %	32 %

Operating margin decreased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to the mix of products and services sold during each respective period. In addition, our acquisitions in fiscal 2023 and the first quarter of fiscal 2024 resulted in incremental expenses, including acquisition of acquired intangibles, that exceeded incremental revenue during the three months ended March 31, 2024.

#### Interest Expense

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In millions)	
<i>Contractual cash interest expense:</i>		
2024 Notes	\$ 3.8	\$ 3.8
2025 Term Loan	4.7	3.9
2021 Credit Facility	—	1.3
<i>Amortization of debt discount:</i>		
2024 Notes	0.2	0.2
2025 Term Loan	—	—
Other	—	0.1
<b>Total interest expense</b>	<b>\$ 8.7</b>	<b>\$ 9.3</b>

Interest expense decreased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to a decrease in borrowings under the 2021 Credit Facility, partially offset by an increase in interest expense for the 2025 Term Loan, which is subject to variable interest rates. For additional information relating to our debt arrangements, see Note 4 in the notes to condensed consolidated financial statements.

#### Income Taxes

The following table presents the provision for income taxes and the effective tax rate for the three months ended March 31, 2024 and March 31, 2023:

	Three Months Ended	
	March 31, 2024	March 31, 2023
	(In millions, except percentages)	
Provision for income taxes	\$ 62.4	\$ 79.7
Effective tax rate	20.1 %	24.8 %

Our provision for income taxes for the three months ended March 31, 2024 was primarily attributable to federal, state and foreign income taxes on our anticipated fiscal 2024 income. We also recognized a tax benefit of \$22.8 million related to stock-based compensation that vested or was exercised during the period.

In 2021, the Organisation for Economic Co-operation and Development announced Pillar Two Model Rules which call for the taxation of large multinational corporations, such as Cadence, at a global minimum tax rate of 15%. Many non-U.S. tax jurisdictions, including Ireland and Hungary, have either recently enacted legislation to adopt certain components of the Pillar Two Model Rules beginning in fiscal 2024 or announced their plans to enact legislation in future years. The currently enacted Pillar Two Model Rules did not have a material impact to our provision for income taxes for the three months ended March 31, 2024.

Our provision for income taxes for the three months ended March 31, 2023 was primarily attributable to federal, state and foreign income taxes on our then anticipated fiscal 2023 income. We also recognized a tax benefit of \$16.9 million related to stock-based compensation that vested or was exercised during the period.

In March 2024, we received a best judgment tax audit assessment of approximately \$24.5 million from the Israel Tax Authority ("ITA") for the tax years 2017 and 2018. The best judgment tax audit assessment is primarily related to transfer pricing and withholding taxes. We disagree with the ITA's position and intend to appeal the tax assessment.

Our future effective tax rates may also be materially impacted by tax amounts associated with our foreign earnings at rates different from the United States federal statutory rate, research credits, the tax impact of stock-based compensation, accounting for uncertain tax positions, business combinations, closure of statutes of limitations or settlement of tax audits and changes in tax law. A significant amount of our foreign earnings is generated by our subsidiaries organized in Ireland and Hungary. Our future effective tax rates may be adversely affected if our earnings were to be lower in countries where we have lower statutory tax rates. We currently expect that our fiscal 2024 effective tax rate will be approximately 25.0%. We expect that our quarterly effective tax rates will vary from our fiscal 2024 effective tax rate as a result of recognizing the income tax effects of stock-based awards in the quarterly periods that the awards vest or are settled and other items that we cannot anticipate. For additional discussion about how our effective tax rate could be affected by various risks, see Part I, Item 1A, "Risk Factors," in our Annual Report.

#### Liquidity and Capital Resources

	As of		
	March 31, 2024	December 31, 2023	Change
	(In millions)		
Cash and cash equivalents	\$ 1,012.4	\$ 1,008.2	\$ 4.2
Net working capital	464.2	385.4	78.8

#### Cash and Cash Equivalents

As of March 31, 2024, our principal sources of liquidity consisted of approximately \$1,012.4 million of cash and cash equivalents as compared to \$1,008.2 million as of December 31, 2023.

Our primary sources of cash and cash equivalents during the three months ended March 31, 2024 were cash generated from operations, proceeds from the issuance of common stock resulting from stock purchases under our employee stock purchase plan and stock options exercised during the period, and proceeds from the sale of investments.

Our primary uses of cash and cash equivalents during the three months ended March 31, 2024 were payments related to employee salaries and benefits, operating expenses, payment of employee taxes on vesting of restricted stock, repurchases of our common stock, cash paid for acquired businesses, and purchases of property, plant and equipment.

Approximately 73% of our cash and cash equivalents were held by our foreign subsidiaries as of March 31, 2024. Our cash and cash equivalents held by our foreign subsidiaries may vary from period to period due to the timing of collections and repatriation of foreign earnings. We expect that current cash and cash equivalent balances and cash flows that are generated from operations and financing activities will be sufficient to meet the needs of our domestic and international operating activities and other capital and liquidity requirements, including acquisitions, investments and share repurchases, for at least the next 12 months and thereafter for the foreseeable future.

#### Net Working Capital

Net working capital is comprised of current assets less current liabilities, as shown on our condensed consolidated balance sheets. The increase in our net working capital as of March 31, 2024, as compared to December 31, 2023, is primarily due to the timing of investing and financing activities.

#### Cash Flows from Operating Activities

	Three Months Ended		Change
	March 31, 2024	March 31, 2023	
	(In millions)		
Cash provided by operating activities	\$ 253.2	\$ 267.4	\$ (14.2)

Cash flows from operating activities include net income, adjusted for certain non-cash items, as well as changes in the balances of certain assets and liabilities. Our cash flows provided by operating activities are significantly influenced by business levels and the payment terms set forth in our customer agreements. The decrease in cash flows from operating activities for the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, was primarily due to the timing of cash disbursements for operating assets and liabilities.

## Cash Flows Used for Investing Activities

	Three Months Ended		
	March 31, 2024	March 31, 2023	Change
	(In millions)		
Cash used for investing activities	\$ (79.8)	\$ (35.7)	\$ (44.1)

Cash used for investing activities increased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to increases in payments for business combinations and purchases of property, plant and equipment, partially offset by an increase in proceeds from the sale and maturity of investments. We expect to continue our investing activities, including purchasing property, plant and equipment, purchasing intangible assets, acquiring other companies and businesses, and making investments.

## Cash Flows Used for Financing Activities

	Three Months Ended		
	March 31, 2024	March 31, 2023	Change
	(In millions)		
Cash used for financing activities	\$ (159.4)	\$ (197.4)	\$ 38.0

Cash used for financing activities decreased during the three months ended March 31, 2024, as compared to the three months ended March 31, 2023, primarily due to a decrease in payments on our revolving credit facility and increased proceeds from the issuance of our common stock. These factors were partially offset by an increase in payments of employee taxes on vesting of restricted stock.

## Other Factors Affecting Liquidity and Capital Resources

### Pending Acquisition

On March 2, 2024, we entered into a definitive agreement to acquire all of the outstanding equity of BETA CAE Systems International AG ("BETA CAE"), a leading system analysis platform provider of multi-domain, engineering simulation solutions. The acquisition is expected to close during our second quarter of fiscal 2024.

At close, we will pay aggregate consideration of \$1.24 billion, with 60% of the consideration to be paid in cash and 40% to be paid through the issuance of our common stock to current BETA CAE shareholders. We intend to fund the cash consideration through a combination of cash on hand and borrowings under existing and/or new debt facilities.

The agreement also provides for customary termination rights for the parties, including the right to terminate the agreement due to the failure to obtain required regulatory approvals on or prior to May 31, 2024 (subject to two automatic extensions until November 29, 2024, the "Longstop Date"). Under the terms of the agreement, we will be required to pay a reverse termination fee of up to \$60 million in the event the agreement is terminated due to the failure to obtain such required regulatory approvals on or prior to the Longstop Date.

### Stock Repurchase Program

In August 2023, our Board of Directors increased the prior authorization to repurchase shares of our common stock by authorizing an additional \$1.0 billion. The actual timing and amount of repurchases are subject to business and market conditions, corporate and regulatory requirements, stock price, acquisition opportunities and other factors. Our repurchase authorization does not obligate us to acquire a minimum amount of shares, does not have an expiration date and may be modified, suspended or terminated without prior notice. As of March 31, 2024, approximately \$1.3 billion of the share repurchase authorization remained available to repurchase shares of our common stock. See Part II, Item 2, "Unregistered Sales of Equity Securities and Use of Proceeds" for additional information on share repurchases.

### Revolving Credit Facility

In June 2021, we entered into a five-year senior unsecured revolving credit facility with a group of lenders led by Bank of America, N.A. as administrative agent, as amended in September 2022. The 2021 Credit Facility provides for borrowings up to \$700.0 million, with the right to request increased capacity up to an additional \$350.0 million upon receipt of lender commitments, for total maximum borrowings of \$1.05 billion. The 2021 Credit Facility expires on June 30, 2026. Any outstanding loans drawn under the 2021 Credit Facility are due at maturity on June 30, 2026, subject to an option to extend the maturity date. Outstanding borrowings may be repaid at any time prior to maturity. Interest rates associated with the 2021 Credit Facility are variable, so interest expense is impacted by changes in the interest rates, particularly for periods when there are outstanding borrowings under the revolving credit facility. Interest is payable quarterly. As of March 31, 2024, there were no borrowings outstanding under the 2021 Credit Facility, and we were in compliance with all financial covenants associated with such credit facility.



#### 2024 Notes

In October 2014, we issued a \$350.0 million aggregate principal amount of 4.375% Senior Notes due October 15, 2024 (the "2024 Notes"). Interest is payable in cash semi-annually. The 2024 Notes are unsecured and rank equal in right of payment to all of our existing and future senior indebtedness. As of March 31, 2024, we were in compliance with all covenants associated with the 2024 Notes.

#### 2025 Term Loan

In September 2022, we entered into a \$300.0 million three-year senior non-amortizing term loan facility due on September 7, 2025 with a group of lenders led by Bank of America, N.A., as administrative agent (the "2025 Term Loan"). The 2025 Term Loan is unsecured and ranks equal in right of payment to all of our unsecured indebtedness. Interest rates associated with the 2025 Term Loan are variable, so interest expense is impacted by changes in interest rates. Interest is payable quarterly. As of March 31, 2024, we were in compliance with all financial covenants associated with the 2025 Term Loan.

For additional information relating to our debt arrangements, see Note 4 in the notes to condensed consolidated financial statements.

#### Other Liquidity Requirements

During the three months ended March 31, 2024, there were no material changes to our other liquidity requirements as reported in Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations," in our Annual Report.

### **Item 3. Quantitative and Qualitative Disclosures About Market Risk**

#### **Foreign Currency Risk**

A material portion of our revenue, expenses and business activities are transacted in the U.S. dollar. In certain foreign countries where we price our products and services in U.S. dollars, a decrease in value of the local currency relative to the U.S. dollar results in an increase in the prices for our products and services compared to those products of our competitors that are priced in local currency. This could result in our prices being uncompetitive in certain markets.

In certain countries where we may invoice customers in the local currency, our revenue benefits from a weaker dollar and is adversely affected by a stronger dollar. The opposite impact occurs in countries where we record expenses in local currencies. In those cases, our costs and expenses benefit from a stronger dollar and are adversely affected by a weaker dollar. The fluctuations in our operating expenses outside the United States resulting from volatility in foreign exchange rates are not generally moderated by corresponding fluctuations in revenue from existing contracts.

We enter into foreign currency forward exchange contracts to protect against currency exchange risks associated with existing assets and liabilities. A foreign currency forward exchange contract acts as a hedge by increasing in value when underlying assets decrease in value or underlying liabilities increase in value due to changes in foreign exchange rates. Conversely, a foreign currency forward exchange contract decreases in value when underlying assets increase in value or underlying liabilities decrease in value due to changes in foreign exchange rates. These forward contracts are not designated as accounting hedges, so the unrealized gains and losses are recognized in other income (expense), net, in advance of the actual foreign currency cash flows with the fair value of these forward contracts being recorded as accrued liabilities or other current assets.

We do not use forward contracts for trading purposes. Our forward contracts generally have maturities of 90 days or less. We enter into foreign currency forward exchange contracts based on estimated future asset and liability exposures, and the effectiveness of our hedging program depends on our ability to estimate these future asset and liability exposures. Recognized gains and losses with respect to our current hedging activities will ultimately depend on how accurately we are able to match the amount of foreign currency forward exchange contracts with actual underlying asset and liability exposures.

The following table provides information about our foreign currency forward exchange contracts as of March 31, 2024. The information is provided in U.S. dollar equivalent amounts. The table presents the notional amounts, at contract exchange rates, and the weighted average contractual foreign currency exchange rates expressed as units of the foreign currency per U.S. dollar, which in some cases may not be the market convention for quoting a particular currency. All of these forward contracts mature before or during May 2024.

	Notional Principal (In millions)	Weighted Average Contract Rate
Forward Contracts:		
European Union euro	\$ 185.6	0.92
British pound	150.2	0.79
Japanese yen	88.7	149.07
Israeli shekel	49.4	3.67
Canadian dollar	41.2	1.35
South Korean won	40.7	1,324.84
Indian rupee	28.6	83.26
Chinese renminbi	17.2	7.20
Swedish krona	16.5	10.39
Taiwan dollar	12.4	31.29
Singapore dollar	1.8	1.34
Total	\$ 632.3	
Estimated fair value	\$ (0.3)	

As of December 31, 2023, our foreign currency exchange contracts had an aggregate principal amount of \$697.9 million, and an estimated fair value of \$9.3 million.

We have performed sensitivity analyses as of March 31, 2024 and December 31, 2023, using a modeling technique that measures the change in the fair values arising from a hypothetical 10% change in the value of the U.S. dollar relative to applicable foreign currency exchange rates, with all other variables held constant. The foreign currency exchange rates we used in performing the sensitivity analysis were based on market rates in effect at each respective date. The sensitivity analyses indicated that a hypothetical 10% decrease in the value of the U.S. dollar would result in a decrease to the fair value of our foreign currency forward exchange contracts of \$15.8 million and \$18.4 million as of March 31, 2024 and December 31, 2023, respectively, while a hypothetical 10% increase in the value of the U.S. dollar would result in an increase to the fair value of our foreign currency forward exchange contracts of \$18.4 million and \$20.4 million as of March 31, 2024 and December 31, 2023, respectively.

We actively monitor our foreign currency risks, but our foreign currency hedging activities may not substantially offset the impact of fluctuations in currency exchange rates on our results of operations, cash flows and financial position.

#### Interest Rate Risk

Our exposure to market risk for changes in interest rates relates primarily to our portfolio of cash, cash equivalents, investments in debt securities and any balances outstanding on our 2021 Credit Facility and 2025 Term Loan. We are exposed to interest rate fluctuations in many of the world's leading industrialized countries, but our interest income and expense is most sensitive to fluctuations in the general level of United States interest rates. In this regard, changes in United States interest rates affect the interest earned on our cash and cash equivalents and the costs associated with foreign currency hedges. All highly liquid securities with a maturity of three months or less at the date of purchase are considered to be cash equivalents. The carrying value of our interest-bearing instruments approximated fair value as of March 31, 2024.

Our investments in debt securities had a fair value of approximately \$51.0 million and \$49.8 million as of March 31, 2024 and December 31, 2023, respectively, that may decline in value if market interest rates rise. Such variability in market interest rates may result in a negative impact on the results of our investment activities. As of March 31, 2024 and December 31, 2023, an increase in the market rates of interest of 1% would result in a decrease in the fair values of our marketable debt securities by approximately \$2.5 million and \$2.6 million, respectively.

Interest rates under our 2021 Credit Facility and 2025 Term Loan are variable, so interest expense could be adversely affected by changes in interest rates, particularly for periods when we maintain a balance outstanding under the revolving credit facility. As of March 31, 2024, there were no borrowings outstanding under our 2021 Credit Facility and \$300.0 million of borrowings outstanding under our 2025 Term Loan.

Interest rates for our 2021 Credit Facility and 2025 Term Loan can fluctuate based on changes in market interest rates and in interest rate margins that vary based on the credit ratings of our unsecured debt. Assuming all loans were fully drawn and we were to fully exercise our right to increase borrowing capacity under our 2021 Credit Facility and made no prepayments on our 2025 Term Loan, each quarter point change in interest rates would result in a \$3.4 million change in annual interest expense on our indebtedness under our 2021 Credit Facility and 2025 Term Loan. For an additional description of the 2021 Credit Facility and 2025 Term Loan, see Note 4 in the notes to condensed consolidated financial statements.

## **Equity Price Risk**

### **Equity Investments**

We have a portfolio of equity investments that includes marketable equity securities and non-marketable investments. Our equity investments are made primarily in connection with our strategic investment program. Under our strategic investment program, from time to time, we make cash investments in companies with technologies that are potentially strategically important to us. For an additional description of our portfolio of equity investments, see Note 11 in the notes to condensed consolidated financial statements.

## **Item 4. Controls and Procedures**

### **Evaluation of Disclosure Controls and Procedures**

As required by Rule 13a-15 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), under the supervision and with the participation of our management, including our Chief Executive Officer ("CEO") and our Chief Financial Officer ("CFO"), we evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of March 31, 2024.

Based on their evaluation as of March 31, 2024, our CEO and CFO have concluded that our disclosure controls and procedures were effective as of the end of the period covered by this report to provide reasonable assurance that the information required to be disclosed by us in our reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and is accumulated and communicated to our management, including the CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

### **Changes in Internal Control Over Financial Reporting**

There were no changes in our internal control over financial reporting during the fiscal quarter ended March 31, 2024 that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

### **Inherent Limitations on Effectiveness of Controls**

Our management, including our CEO and CFO, does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all errors and all fraud. Internal control over financial reporting, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of internal control are met. Further, the design of internal control must reflect the fact that there are resource constraints, and the benefits of the control must be considered relative to their costs. While our disclosure controls and procedures and internal control over financial reporting are designed to provide reasonable assurance of their effectiveness, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within Cadence, have been detected.

## **PART II. OTHER INFORMATION**

### **Item 1. Legal Proceedings**

For information regarding pending legal proceedings, related matters and associated risks, see Note 14 in the notes to condensed consolidated financial statements under Part I, Item 1. and the “Risk Factors” section in our Annual Report.

### **Item 1A. Risk Factors**

Our operations and financial results are subject to various risks and uncertainties, including those described in the “Risk Factors” sections in our Annual Report, that could adversely affect our business, financial condition, results of operations, cash flows, liquidity, revenue, growth, prospects, demand, reputation, and the trading price of our common stock, and make an investment in us speculative or risky. The “Risk Factors” section in our Annual Report remain current in all material respects. The risk factors described in our Annual Report and subsequent SEC filings do not include all of the risks that we face, and there may be additional risks or uncertainties that are currently unknown or not believed to be material that occur or become material.

### **Item 2. Unregistered Sales of Equity Securities and Use of Proceeds**

We are authorized to repurchase shares of our common stock under a publicly announced program that was most recently increased by our Board of Directors on August 2, 2023. Pursuant to this authorization, we may repurchase shares from time to time through open market repurchases, in privately negotiated transactions or by other means, including accelerated share repurchase transactions or other structured repurchase transactions, block trades or pursuant to trading plans intended to comply with Rule 10b5-1 of the Exchange Act. The actual timing and amount of repurchases are subject to business and market conditions, corporate and regulatory requirements, stock price, acquisition opportunities and other factors. Our repurchase authorization does not obligate us to acquire a minimum amount of shares, does not have an expiration date and may be modified, suspended or terminated without prior notice.

The following table presents repurchases made under our publicly announced repurchase authorizations and shares surrendered by employees to satisfy income tax withholding obligations during the three months ended March 31, 2024:

Period	Total Number of Shares Purchased <sup>(1)</sup>	Average Price Paid Per Share <sup>(2)</sup>	Total Number of Shares Purchased as Part of Publicly Announced Plan or Program <sup>(3)</sup>	Approximate Dollar Value of Shares that May Yet Be Purchased Under Publicly Announced Plan or Program <sup>(1)</sup> (In millions)
January 1, 2024 - January 31, 2024	148,956	\$ 274.60	144,186	\$ 1,337
February 1, 2024 - February 29, 2024	277,635	\$ 297.63	139,761	\$ 1,295
March 1, 2024 - March 31, 2024	463,868	\$ 301.60	140,734	\$ 1,252
Total	890,459	\$ 295.84	424,681	

(1) Shares purchased that were not part of our publicly announced repurchase programs represent shares of restricted stock surrendered by employees to satisfy employee income tax withholding obligations due upon vesting, and do not reduce the dollar value that may yet be purchased under our publicly announced repurchase programs.

(2) The weighted average price paid per share of common stock does not include the cost of commissions.

(3) Our publicly announced share repurchase program was originally announced on February 1, 2017 and most recently increased by an additional \$1.0 billion on August 2, 2023.

### **Item 3. Defaults Upon Senior Securities**

None.

### **Item 4. Mine Safety Disclosures**

Not applicable.

### **Item 5. Other Information**

#### **Insider Trading Arrangements**

During the fiscal quarter ended March 31, 2024, our directors and officers (as defined in Rule 16a-1(f) under the Exchange Act) adopted or terminated the contracts, instructions or written plans for the purchase or sale of our securities set forth in the table below.

Name and Position	Action	Adoption/ Termination Date	Type of Trading Arrangement	Total Shares of Common Stock to be Sold	Expiration Date
			Rule 10b5-1*		
Chin-Chi Teng, Senior Vice President and General Manager of the Digital & Signoff Group	Adoption	3/7/2024	X	Up to 52,187	8/30/2024
Paul Cunningham, Senior Vice President and General Manager of the System Verification Group	Adoption	3/12/2024	X	Up to 8,450	6/6/2025

\* Contract, instruction or written plan intended to satisfy the affirmative defense conditions of Rule 10b5-1(c) under the Exchange Act.

**Item 6. Exhibits**

Exhibit Number	Exhibit Title	Incorporated by Reference				Provided Herewith
		Form	File No.	Exhibit No.	Filing Date	
<a href="#">2.1</a>	* <a href="#">Share Purchase Agreement related to BETA CAE Systems International AG and BETA CAE Systems SA dated March 2, 2024.</a>					X
<a href="#">3.1</a>	# <a href="#">The Registrant's Restated Certificate of Incorporation, as filed with the Secretary of State of the State of Delaware on May 3, 2019.</a>	10-Q	000-15867	3.01	7/22/2019	
<a href="#">3.2</a>	# <a href="#">The Registrant's Amended and Restated Bylaws, effective as of November 2, 2023.</a>	8-K	000-15867	3.01	11/3/2023	
<a href="#">31.1</a>	* <a href="#">Certification of the Registrant's Chief Executive Officer, Anirudh Devgan, pursuant to Rule 13a-14 of the Securities Exchange Act of 1934.</a>					X
<a href="#">31.2</a>	* <a href="#">Certification of the Registrant's Chief Financial Officer, John M. Wall, pursuant to Rule 13a-14 of the Securities Exchange Act of 1934.</a>					X
<a href="#">32.1</a>	† <a href="#">Certification of the Registrant's Chief Executive Officer, Anirudh Devgan, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>					X
<a href="#">32.2</a>	† <a href="#">Certification of the Registrant's Chief Financial Officer, John M. Wall, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>					X
101.INS	* Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.					
101.SCH	* Inline XBRL Taxonomy Extension Schema Document.					X
101.CAL	* Inline XBRL Taxonomy Extension Calculation Linkbase Document.					X
101.DEF	* Inline XBRL Definition Linkbase Document.					X
101.LAB	* Inline XBRL Taxonomy Extension Label Linkbase Document.					X
101.PRE	* Inline XBRL Taxonomy Extension Presentation Linkbase Document.					X
104	Cover Page Interactive Data File - The cover page from this Quarterly Report on Form 10-Q is formatted in Inline XBRL (included as Exhibit 101).					X
#	Portions of the exhibit, marked by brackets, have been omitted because the omitted information (i) is not material and (ii) is the type of information that the registrant treats as private or confidential.					
*	Filed herewith.					
†	Furnished herewith.					



## 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.

### **CADENCE DESIGN SYSTEMS, INC.** **(Registrant)**

DATE: April 23, 2024

By: /s/ Anirudh Devgan  
Anirudh Devgan  
President and Chief Executive Officer

DATE: April 23, 2024

By: /s/ John M. Wall  
John M. Wall  
Senior Vice President and Chief Financial Officer