

2953 Bunker Hill Lane, Suite 300,

Santa Clara, California 95054

(Address of Principal Executive Offices) (Zip Code)

Registrant's telephone number, including area code:(408) 217-7300

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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files). Yes No

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

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company
(Do not check if a smaller reporting company)

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

The total number of shares outstanding of the Registrant's common stock, \$0.001 par value per share, as of May 4, 2015 was 38,294,523.

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INPHI CORPORATION

**QUARTERLY REPORT ON FORM 10-Q
FOR THE THREE MONTHS ENDED MARCH 31, 2015**

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Table Of Contents**PART I. FINANCIAL INFORMATION****Item 1. Financial Statements****INPHI CORPORATION****UNAUDITED CONDENSED CONSOLIDATED BALANCE SHEETS**

(in thousands, except share and per share amounts)

	March 31, 2015	December 31, 2014
Assets		
Current assets:		
Cash and cash equivalents	\$39,542	\$ 30,366
Investments in marketable securities	38,670	38,908
Accounts receivable, net	36,740	36,914
Inventories	23,341	26,650
Deferred tax assets	563	678
Income tax receivable	297	204
Prepaid expenses and other current assets	3,891	6,779
Total current assets	143,044	140,499
Property and equipment, net	34,521	35,498
Goodwill	9,405	9,405
Identifiable intangible assets, net	77,587	80,773
Deferred tax charge	2,701	3,261
Other assets, net	10,564	9,274
Total assets	\$277,822	\$ 278,710
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$8,207	\$ 7,884
Deferred revenue	7,730	7,110
Accrued employee expenses	7,136	9,492
Other accrued expenses	6,289	4,952
Other current liabilities	2,947	2,689
Total current liabilities	32,309	32,127
Other long-term liabilities	9,456	7,409
Total liabilities	41,765	39,536
Commitments and contingencies (Note 14)		

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Stockholders' equity:		
Preferred stock, \$0.001 par value; 10,000,000 shares authorized; no shares issued	—	—
Common stock, \$0.001 par value; 500,000,000 shares authorized; 37,951,150 and 37,310,963 issued and outstanding at March 31, 2015 and December 31, 2014, respectively	38	37
Additional paid-in capital	334,027	327,475
Accumulated deficit	(98,898)	(89,190)
Accumulated other comprehensive income	890	852
Total stockholders' equity	236,057	239,174
Total liabilities and stockholders' equity	\$277,822	\$ 278,710

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Table Of Contents**INPHI CORPORATION****UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF INCOME**

(in thousands, except share and per share amounts)

	Three Months Ended	
	March 31,	
	2015	2014
Revenue	\$59,160	\$31,189
Cost of revenue	29,238	11,063
Gross profit	29,922	20,126
Operating expenses:		
Research and development	22,722	13,739
Sales and marketing	6,869	3,950
General and administrative	5,812	3,065
Total operating expenses	35,403	20,754
Loss from operations	(5,481)	(628)
Other income	167	160
Loss before income taxes	(5,314)	(468)
Provision for income taxes	4,394	527
Net loss	\$(9,708)	\$(995)
Earnings per share:		
Basic	\$(0.26)	\$(0.03)
Diluted	\$(0.26)	\$(0.03)
Weighted-average shares used in computing earnings per share:		
Basic	37,696,518	30,697,808
Diluted	37,696,518	30,697,808

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Table Of Contents**INPHI CORPORATION****UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)****(in thousands)**

	Three Months Ended March 31,	
	2015	2014
Net loss	\$(9,708)	\$(995)
Other comprehensive income (loss):		
Available for sale investments:		
Change in unrealized gain, net of \$0 tax	47	50
Realized gain reclassified into earnings, net of \$0 tax	(9)	—
Comprehensive loss	\$(9,670)	\$(945)

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

Table Of Contents**INPHI CORPORATION****UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in thousands)

	Three Months Ended March 31, 2015 2014	
Cash flows from operating activities		
Net loss	\$(9,708)	\$(995)
Adjustments to reconcile net loss to net cash provided by (used in) operating activities:		
Depreciation and amortization	6,423	2,357
Stock-based compensation	6,420	4,506
Deferred income taxes and deferred tax charge	2,590	213
Excess tax benefit related to stock-based compensation	(1,251)	—
Amortization of premiums on marketable securities	135	228
Other noncash items	(63)	—
Changes in assets and liabilities:		
Accounts receivable	174	(4,984)
Inventories	3,309	(438)
Prepaid expenses and other assets	1,597	(1,782)
Income tax payable/receivable	2,330	337
Accounts payable	1,392	34
Accrued expenses	(932)	(1,329)
Deferred revenue	620	(186)
Other liabilities	(782)	(89)
Net cash provided by (used in) operating activities	12,254	(2,128)
Cash flows from investing activities		
Purchases of property and equipment	(3,438)	(3,156)
Proceeds from sale of property and equipment	75	—
Purchases of marketable securities	(4,562)	(16,713)
Sales and maturities of marketable securities	4,714	18,231
Net cash used in investing activities	(3,211)	(1,638)
Cash flows from financing activities		
Proceeds from exercise of stock options	1,052	1,231
Excess tax benefit related to stock-based compensation	1,251	—
Proceeds from employee stock purchase plan	1,977	1,303
Minimum tax withholding paid on behalf of employees for restricted stock units	(4,147)	(2,601)
Net cash provided by (used in) financing activities	133	(67)
Net increase (decrease) in cash and cash equivalents	9,176	(3,833)
Cash and cash equivalents at beginning of period	30,366	31,667
Cash and cash equivalents at end of period	\$39,542	\$27,834
Supplemental cash flow information		

Income taxes paid	\$580	\$—
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The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

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Inphi Corporation

Notes to Unaudited Condensed Consolidated Financial Statements

(Dollars in thousands except share and per share amounts)

1. Organization and Basis of Presentation

Inphi Corporation (the “Company”), a Delaware corporation, was incorporated in November 2000. The Company is a fabless provider of high-speed analog and mixed signal semiconductor solutions for the communications, data center and computing markets. The Company’s semiconductor solutions are designed to address bandwidth bottlenecks in networks, maximize throughput and minimize latency in computing environments and enable the rollout of next generation communications, data center and computing infrastructures. In addition, the semiconductor solutions provide a vital high-speed interface between analog signals and digital information in high-performance systems such as telecommunications transport systems, enterprise networking equipment, data center and enterprise servers, storage platforms, test and measurement equipment and military systems.

On October 3, 2014, the Company completed the acquisition of Cortina Systems, Inc. including its high-speed interconnect and optical transport product lines (Cortina) for approximately \$52,509 in cash and approximately 5.3 million shares of the Company’s common stock in accordance with the Agreement and Plan of Merger dated July 30, 2014 as amended by Amendment No. 1 to the Agreement and Plan of Merger dated September 25, 2014. The revenue and expenses of Cortina are included in the consolidated statement of income for the three months ended March 31, 2015.

The interim unaudited condensed consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States (“GAAP”), for interim financial information and with the instructions to Securities and Exchange Commission (“SEC”), Form 10-Q and Article 10 of SEC Regulation S-X. They do not include all of the information and footnotes required by GAAP for complete financial statements. Therefore, these financial statements should be read in conjunction with the Company’s audited consolidated financial statements and notes thereto for the year ended December 31, 2014, included in the Company’s Annual Report on Form 10-K filed with the SEC on March 10, 2015.

The interim condensed consolidated financial statements included herein are unaudited; however, they contain all normal recurring accruals and adjustments that, in the opinion of management, are necessary to state fairly the Company’s consolidated financial position at March 31, 2015, and its consolidated results of operations and cash flows for the three months ended March 31, 2015 and 2014. The results of operations for the three months ended March 31, 2015 are not necessarily indicative of the results to be expected for future quarters or the full year.

2. Recent Accounting Pronouncements

In November 2014, the Financial Accounting Standards Board, issued authoritative guidance that provides guidance on whether and at what threshold an acquired business or not-for-profit organization can apply pushdown accounting. This guidance provides an option to apply pushdown accounting in the separate financial statements of an acquired entity upon the occurrence of an event in which an acquirer obtains control of the acquired entity. The guidance is effective on November 18, 2014. After the effective date, an acquired entity can make an election to apply the guidance to future change-in-control events or to its most recent change-in-control event. However, if the financial statements for the period in which the most recent change-in-control event occurred already have been issued or made available to be issued, the application of this guidance would be a change in accounting principle. The adoption of this guidance did not impact the consolidated financial statements.

In May 2014, the Financial Accounting Standards Board issued guidance on “Revenue from Contracts with Customers.” The new revenue recognition guidance provides a five-step analysis of transactions to determine when and how revenue is recognized. The guidance requires an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods or services to customers. The new guidance is effective for the Company on January 1, 2017. Early application is not permitted. The new guidance permits the use of either the retrospective or cumulative effect transition method. The Company is evaluating the effect that the new revenue recognition guidance will have on the consolidated financial statements and related disclosures. The Company has not yet selected a transition method nor determined the effect of the standard on the ongoing financial reporting.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements**

(Dollars in thousands except share and per share amounts)

3. Investments

The following table summarizes the investments by investment category:

	March 31, 2015		December 31, 2014	
	Cost	Fair Value	Cost	Fair Value
Available-for-sale securities:				
U.S. treasury securities	\$802	\$802	\$2,056	\$2,057
Municipal bonds	20,823	20,853	19,686	19,712
Corporate notes/bonds	14,972	15,011	16,381	16,392
Asset backed securities	2,000	2,004	750	747
Total investments	\$38,597	\$38,670	\$38,873	\$38,908

As of March 31, 2015, the Company had 13 investments that were in an unrealized loss position. The gross unrealized losses on these investments at March 31, 2015 of \$11 were determined to be temporary in nature. The Company reviews the investments to identify and evaluate investments that have an indication of possible other-than-temporary impairment. Factors considered in determining whether a loss is other-than-temporary include the length of time and extent to which fair value has been less than the cost basis, the financial condition and near-term prospects of the investee, and the intent and ability to hold the investment for a period of time sufficient to allow for any anticipated recovery in market value.

The realized gain related to the Company's available-for-sale investment, which were reclassified from other comprehensive income, was included in other income in the consolidated statements of income.

The contractual maturities of available-for-sale securities at March 31, 2015 are presented in the following table:

	Cost	Fair Value
Due in one year or less	\$12,638	\$12,662
Due between one and five years	25,959	26,008
	\$38,597	\$38,670

4. Inventories

Inventories consist of the following:

	March 31, 2015	December 31, 2014
Raw materials	\$3,897	\$ 5,803
Work in process	3,950	2,409
Finished goods	15,494	18,438
	\$23,341	\$ 26,650

Finished goods held by distributors were \$3,007 and \$2,798 as of March 31, 2015 and December 31, 2014, respectively.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements**

(Dollars in thousands except share and per share amounts)

5. Property and Equipment, net

Property and equipment consist of the following:

	March 31, 2015	December 31, 2014
Laboratory and production equipment	\$54,471	\$ 48,522
Office, software and computer equipment	22,018	15,855
Furniture and fixtures	2,721	1,762
Leasehold improvements	5,924	5,212
	85,134	71,351
Less accumulated depreciation	(50,613)	(35,853)
	\$34,521	\$ 35,498

Depreciation and amortization expense of property and equipment for the three months ended March 31, 2015 and 2014 was \$3,237 and \$2,357, respectively.

As of March 31, 2015 and December 31, 2014, computer software costs included in property and equipment were \$8,655 and \$4,582, respectively. Amortization expense of capitalized computer software costs was \$232 and \$103 for the three months ended March 31, 2015 and 2014, respectively.

6. Identifiable Intangible Assets

The following table presents details of identifiable intangible assets:

	March 31, 2015			December 31, 2014		
	Gross	Accumulated Amortization	Net	Gross	Accumulated Amortization	Net
Developed technology	\$71,570	\$ 5,732	\$65,838	\$71,570	\$ 2,857	\$68,713
Customer relationships	8,170	405	7,765	8,170	201	7,969
Trade name	920	92	828	920	46	874
Patents	1,579	173	1,406	1,579	112	1,467
In-process research and development	1,750	—	1,750	1,750	—	1,750
	\$83,989	\$ 6,402	\$77,587	\$83,989	\$ 3,216	\$80,773

The following table presents amortization of intangible assets for the three months ended March 31, 2015:

Cost of goods sold	\$2,875
Sales and marketing	204
General and administrative	107
	\$3,186

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements****(Dollars in thousands except share and per share amounts)**

Based on the amount of intangible assets subject to amortization at March 31, 2015, the expected amortization expense for each of the next five fiscal years and thereafter is as follows:

2015 (remainder)	\$9,548
2016	12,707
2017	12,682
2018	12,648
2019	11,078
Thereafter	17,174
	\$75,837

The weighted-average amortization periods remaining by intangible asset category were as follows (in years):

Developed technology	6.03
Customer relationship	9.50
Others	10.20

7. Product Warranty Obligation

As of March 31, 2015 and December 31, 2014, the product warranty liability was \$110. There was no movement in product warranty liability during the three months ended March 31, 2015 and 2014.

On November 3, 2014, the Company received a claim notification from an insurance company asserting a claim of approximately \$4,000 for field installation repair and replacement costs incurred by a customer in 2011. The Company believes that it had fulfilled its contractual obligation to provide warranty repair and replacement, but has referred the matter to its insurance carrier at the request of the insurance company. As of March 31, 2015, the Company believes that the liability under this claim is not probable. Nevertheless, resolutions of third-party claims are

inherently uncertain and as such, an unfavorable outcome could ultimately impact the Company's business, cash flow and results of operations.

8. Other long-term liabilities

Other long-term liabilities consist of the following:

	March 31, 2015	December 31, 2014
Deferred rent	\$2,189	\$ 1,930
Income tax payable	6,590	4,687
Deferred tax liabilities	677	792
	\$9,456	\$ 7,409

9. Income Taxes

The Company normally determines its interim provision using an estimated single annual effective tax rate for all tax jurisdictions. ASC 740 provides that when an entity operates in a jurisdiction that has generated ordinary losses on a year-to-date basis or on the basis of the results anticipated for the full fiscal year and no benefit can be recognized on those losses, a separate effective tax rate should be computed and applied to ordinary income (or loss) in that jurisdiction. The Company incurred pretax loss during the three months ended March 31, 2015 and 2014 from the Singapore operation and will not recognize tax benefit of the losses due to full valuation allowance established against deferred tax assets. Thus, a separate effective tax rate was applied to losses from each loss jurisdiction to compute the Company's interim tax expense. In addition, the discrete method was used to calculate the Company's interim tax expense for the U.S. operations for the three months ended March 31, 2014. The Company has determined that a calculation of an annual effective tax rate would not represent a reliable estimate due to the sensitivity of the annual effective tax rate estimate to even minimal changes to forecasted earnings of the U.S. operations for the year. Under the discrete method, the Company determines its tax expense based upon actual results as if the interim period were an annual period.

The Company recorded an income tax expense of \$4,394 and \$527 in the three months ended March 31, 2015 and 2014, respectively. The effective tax rates were (83%) and (113%) in the three months ended March 31, 2015 and 2014, respectively. The difference between the effective tax rates and the 34% federal statutory rate in the three months ended March 31, 2015 and 2014, respectively, resulted primarily due to the change in valuation allowance, foreign income taxes provided at lower rates, geographic mix in expected operating results, unrecognized tax benefits, stock-based compensation adjustments and recognition of state research and development credits.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements****(Dollars in thousands except share and per share amounts)**

During the three months ended March 31, 2015, the gross amount of the Company's unrecognized tax benefits increased approximately \$2,011 as a result of tax positions taken during the current year. Substantially all of the unrecognized tax benefits as of March 31, 2015, if recognized, would affect the Company's effective tax rate. The Company believes that in the next twelve months, it is reasonably possible that that the gross unrecognized tax benefit may decrease by approximately \$1,750 due to resolution of the state audit.

The Company does not provide for U.S. income taxes on undistributed earnings of its controlled foreign corporations that are intended to be invested indefinitely outside the United States.

10. Earnings Per Share

The following shows the computation of basic and diluted earnings per share:

	Three Months	
	Ended March 31,	
	2015	2014
Numerator		
Net loss	\$(9,708)	\$(995)
Denominator		
Weighted average common stock	37,696,518	30,699,590
Less weighted average unvested restricted stock award	—	(1,782)
Weighted average common stock—basic and diluted	37,696,518	30,697,808
Earnings per share		
Basic	\$(0.26)	\$(0.03)
Diluted	\$(0.26)	\$(0.03)

The following securities were not included in the computation of diluted earnings per share as inclusion would have been anti-dilutive:

Three Months

**Ended March 31,
2015 2014**

Common stock options	2,935,994	3,760,969
Restricted stock unit	4,446,535	2,771,758
Restricted stock award	—	1,782
	7,382,529	6,534,509

11. Stock-Based Compensation

In June 2010, the Board approved the Company's 2010 Stock Incentive Plan (the "2010 Plan"), which became effective in November 2010. The 2010 Plan provides for the grants of restricted stock, stock appreciation rights and stock unit awards to employees, non-employee directors, advisors and consultants. The Compensation Committee administers the 2010 Plan, including the determination of the recipient of an award, the number of shares subject to each award, whether an option is to be classified as an incentive stock option or nonstatutory option, and the terms and conditions of each award, including the exercise and purchase prices and the vesting or duration of the award. Options granted under the 2010 Plan are exercisable only upon vesting. At March 31, 2015, 3,389,763 shares of common stock have been reserved for future grants under the 2010 Plan.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements**

(Dollars in thousands except share and per share amounts)

Stock Option Awards

The Company did not grant any stock options during the three months ended March 31, 2015 and 2014.

The following table summarizes information regarding options outstanding:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life	Aggregate Intrinsic Value
Outstanding at December 31, 2014	3,005,594	\$ 10.16	6.12	\$ 25,302
Granted	—	—		
Exercised	(153,021)	6.88		
Canceled	(18,719)	20.29		
Outstanding at March 31, 2015	2,833,854	\$ 10.27	5.96	\$ 21,705
Exercisable at March 31, 2015	2,301,217	\$ 9.92	5.71	\$ 18,430
Vested and expected to vest at March 31, 2015	2,831,137	\$ 10.27	5.96	\$ 21,687

The intrinsic value of options outstanding, exercisable and vested and expected to vest is calculated based on the difference between the exercise price and the fair value of the Company's common stock as of the respective balance sheet dates.

The total intrinsic value of options exercised during the three months ended March 31, 2015 and 2014 was \$1,858 and \$4,343, respectively. The intrinsic value of exercised options is calculated based on the difference between the exercise price and the fair value of the Company's common stock as of the exercise date. Cash received from the exercise of stock options was \$1,052 and \$1,231 for the three months ended March 31, 2015 and 2014, respectively.

Restricted Stock Units

The Company granted restricted stock units (“RSUs”) to members of the Board and employees. Most of the Company’s outstanding RSUs vest over four years with vesting contingent upon continuous service. The Company estimates the fair value of RSUs using the market price of the common stock on the date of the grant. The fair value of these awards is amortized on a straight-line basis over the vesting period.

The following table summarizes information regarding outstanding RSUs:

	Number of Shares	Weighted Average Grant Date Fair Value Per Share
Outstanding at December 31, 2014	4,789,622	\$ 12.85
Granted	130,500	18.48
Vested	(549,595)	11.24
Canceled	(65,677)	14.28
Outstanding at March 31, 2015	4,304,850	13.21
Expected to vest at March 31, 2015	4,234,942	

Employee Stock Purchase Plan

In December 2011, the Company adopted the Employee Stock Purchase Plan (“ESPP”). Participants purchase the Company’s stock using payroll deductions, which may not exceed 15% of their total cash compensation. Pursuant to the terms of the ESPP, the "look-back" period for the stock purchase price is six months. Offering and purchase periods will begin on February 10 and August 10 of each year. Participants will be granted the right to purchase common stock at a price per share that is 85% of the lesser of the fair market value of the Company’s common stock at the beginning or the end of each six-month period.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements****(Dollars in thousands except share and per share amounts)**

The ESPP imposes certain limitations upon an employee's right to acquire common stock, including the following: (i) no employee shall be granted a right to participate if such employee immediately after the election to purchase common stock, would own stock possessing 5% or more to the total combined voting power or value of all classes of stock of the Company, and (ii) no employee may be granted rights to purchase more than \$25 fair value of common stock for each calendar year. The maximum aggregate number of shares of common stock available for purchase under the ESPP is one million shares. Total common stock issued under the ESPP during the three months ended March 31, 2015 and 2014 was 160,776 and 131,007, respectively.

The fair value of employee stock purchase plan is estimated at the start of offering period using the Black-Scholes option pricing model with the following assumptions:

	Three Months Ended	
	March 31, 2015	2014
Risk-free interest rate	0.07%	0.08%
Expected life (in years)	0.50	0.49
Dividend yield	—	—
Expected volatility	41 %	34 %
Estimated fair value	\$5.34	\$3.00

Stock-Based Compensation Expense

Stock-based compensation expense is included in the Company's results of operations as follows:

Three Months

	Ended March	
	31,	
	2015	2014
Operating expenses		
Cost of goods sold	\$363	\$251
Research and development	3,786	2,389
Sales and marketing	1,025	858
General and administrative	1,246	1,008
	\$6,420	\$4,506

Total unrecognized compensation cost related to unvested stock options at March 31, 2015, prior to the consideration of expected forfeitures, is approximately \$47,476 and is expected to be recognized over a weighted-average period of 2.78 years.

12. Fair Value Measurements

The guidance on fair value measurements requires fair value measurements to be classified and disclosed in one of the following three categories:

Level 1: Unadjusted quoted prices in active markets that are accessible at the measurement date for identical, unrestricted assets or liabilities;

Level 2: Quoted prices in markets that are not active, or inputs which are observable, either directly or indirectly, for substantially the full term of the asset or liability, or

Level 3: Prices or valuation techniques that require inputs that are both significant to the fair value measurement and unobservable (i.e., supported by little or no market activity).

The Company measures its investments in marketable securities at fair value using the market approach, which uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities. The Company has cash equivalents which consist of money market funds valued using the amortized cost method, in accordance with Rule 2a-7 under the 1940 Act which approximates fair value.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements****(Dollars in thousands except share and per share amounts)**

The Company determines the amount of transfers between Levels 1 and 2 or transfers into or out of Level 3 by using the end-of-period fair value. The Company had no transfers among the fair value hierarchy during the three months ended March 31, 2015.

The following table presents information about assets required to be carried at fair value on a recurring basis:

March 31, 2015	Total	Level 1	Level 2
Assets			
Cash equivalents:			
Money market funds	\$1,863	\$—	\$1,863
Investment in marketable securities:			
U.S. treasury securities	802	802	—
Municipal bonds	20,853	—	20,853
Corporate notes/bonds	15,011	—	15,011
Asset backed securities	2,004	—	2,004
	\$40,533	\$802	\$39,731
December 31, 2014	Total	Level 1	Level 2
Assets			
Cash equivalents:			
Money market funds	\$1,457	\$—	\$1,457
Investment in marketable securities:			
US treasury securities	2,057	2,057	—
Municipal bonds	19,712	—	19,712
Corporate notes/bonds	16,392	—	16,392
Asset backed securities	747	—	747
	\$40,365	\$2,057	\$38,308

13. Segment and Geographic Information

The Company operates in one reportable segment. The Company's Chief Executive Officer, who is considered to be the chief operating decision maker, manages the Company's operations as a whole and reviews consolidated financial information for purposes of evaluating financial performance and allocating resources. Revenue by region is classified based on the locations to which the product is transported, which may differ from the customer's principal offices.

The following table sets forth the Company's revenue by geographic region:

	Three Months Ended March 31,	
	2015	2014
China	\$19,055	\$12,515
United States	9,456	5,459
Other	30,649	13,215
	\$59,160	\$31,189

As of March 31, 2015, \$4,509 of long-lived tangible assets are located outside the United States, of which \$3,056 are located in Taiwan. As of December 31, 2014, \$6,153 of long-lived tangible assets are located outside the United States of which \$3,463 are located in Taiwan.

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Inphi Corporation

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(Dollars in thousands except share and per share amounts)

14. Commitments and Contingencies

Leases

The Company leases its facility and certain equipment under noncancelable lease agreements expiring in various years through 2020. The Company also licenses certain software used in its research and development activities under a term license subscription and maintenance arrangement.

As of March 31, 2015, future minimum lease payments under noncancelable operating leases having initial terms in excess of one year are as follows:

2015 (remaining)	\$8,890
2016	9,311
2017	4,085
2018	1,855
2019 and thereafter	1,412
	\$25,553

For the three months ended March 31, 2015 and 2014, lease operating expense was \$3,043 and \$1,423, respectively.

Noncancelable Purchase Obligations

The Company depends upon third party subcontractors to manufacture its wafers. The Company's subcontractor relationships typically allow for the cancellation of outstanding purchase orders, but require payment of all expenses incurred through the date of cancellation. As of March 31, 2015, the total value of open purchase orders for wafers was approximately \$6,592.

Legal Proceedings

Netlist, Inc. v. Inphi Corporation, Case No. 09-cv-6900 (C.D. Cal.)

On September 22, 2009, Netlist filed suit in the United States District Court, Central District of California, or the Court, asserting that the Company infringes U.S. Patent No. 7,532,537. Netlist filed an amended complaint on December 22, 2009, further asserting that the Company infringes U.S. Patent Nos. 7,619,912 and 7,636,274, collectively with U.S. Patent No. 7,532,537, the patents-in-suit, and seeking both unspecified monetary damages to be determined and an injunction to prevent further infringement. These infringement claims allege that the Company's iMB™ and certain other memory module components infringe the patents-in-suit. The Company answered the amended complaint on February 11, 2010 and asserted that the Company does not infringe the patents-in-suit and that the patents-in-suit are invalid. In 2010, Company filed *inter partes* requests for reexamination with the United States Patent and Trademark Office (the "USPTO"), asserting that the patents-in-suit are invalid.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements****(Dollars in thousands except share and per share amounts)**

On August 27, 2010, the USPTO ordered the request for *Inter Partes* Reexamination for U.S. Patent No. 7,636,274 and found a substantial new question of patentability based upon each of the different issues that the Company raised as the reexamination requestor. On September 27, 2011, the Patent Office issued a First Office Action based on the Netlist '274 Patent Reexamination Request and rejected 91 of its 97 claims. On October 27, 2011, Netlist responded to the USPTO determination by amending some but not all of the claims, adding new claims and making arguments as to the validity of the rejected claims in view of the cited references. The Company provided rebuttable comments to the USPTO on November 28, 2011. On March 12, 2012, the Examiner issued an Action Closing Prosecution, indicating that the claims pending contain allowable subject matter, and Netlist did not respond to the Action Closing Prosecution in the time provided by the USPTO. On June 22, 2012, the USPTO issued a Right of Appeal Notice, and on July 23, 2012, the Company filed a Notice of Appeal. The Company filed the Appeal Brief on September 24, 2012 and Netlist filed its Responsive Brief on October 24, 2012. The parties received an Examiner's Answer dated April 16, 2013 from the USPTO that maintained the rejections set forth on the Right of Appeal Notice dated June 22, 2012. The Company filed a Rebuttal Brief on May 16, 2013 and a Request for Oral Hearing on June 7, 2013. The appeal hearing took place on November 20, 2013. The Patent Trial and Appeal Board (PTAB) issued its decision on January 16, 2014, finding the Examiner erred in declining to adopt 8 of the 9 different rejections that had been proposed by us. The Company requested a rehearing of the decision not to adopt the remaining one rejection that had been proposed by the Company and was not adopted by the PTAB on February 18, 2014. In papers dated March 18, 2014, Netlist provided rebuttal comments to the request for rehearing and also requested re-opening of prosecution with respect to the claims that the PTAB had rejected, and in that request to re-open prosecution amended the independent claims that stood rejected. The Company filed comments with respect to these proposed amended claims on April 17, 2014, which were refiled in a slightly different form on September 5, 2014. On June 26, 2014, the PTAB issued a decision on the request for rehearing, which included a rejection of further claims pursuant to the Company's request and on July 28, 2014, Netlist provided a response to the USPTO cancelling those claims that had been rejected in the decision on the request for rehearing. On September 26, 2014, the PTAB remanded the proceedings back to the Examiner, with instructions to consider part, but not all, of the Company's comments that had been previously filed on September 5, 2014. On October 10, 2014, the Company filed a Petition to the Director of the USPTO seeking reconsideration of the PTAB remand of September 26, 2014, and requesting that all of the comments that the Company previously filed on September 5, 2014 should have been entered for consideration by the Examiner. The USPTO denied this Petition with remand instructions to the Examiner to consider part, but not all, of the Company's comments that had been previously filed on September 5, 2014. While the reexamination still awaits the Examiner's action after the remand, on March 13, 2015 the Company filed a Petition for Writ of Mandamus with United States Court of Appeals for the Federal Circuit seeking relief from the Federal Circuit Court to vacate the Board's order and to instruct the Director to enter in full the Company's comments that had been previously filed on September 5, 2014. On March 19, 2015, Netlist's motion to extend time to file a response to the Petition was granted, and Netlist's opposition to the Petition for Writ of Mandamus was received on April 27, 2015. A reply brief by the Company is expected as the next substantive step of the proceeding, as prosecution otherwise remains closed. The proceeding is expected to continue in accordance with established *Inter Partes* Reexamination procedures. The Company may consider filing an appeal to any determination made by the USPTO with the Federal Circuit Court of Appeals.

On September 8, 2010, the USPTO ordered the request for *Inter Partes* Reexamination for U.S. Patent No. 7,532,537 and found a substantial new question of patentability based upon different issues that the Company raised as the reexamination requestor. The USPTO accompanied this Reexamination Order of U.S. Patent No. 7,532,537 with its own evaluation of the validity of this patent, and rejected some but not all of claims. In a response dated October 8, 2010, Netlist responded to the USPTO determination by amending some but not all of the claims, adding new claims and making arguments as to why the claims were not invalid in view of the cited references. The Company provided rebuttable comments to the USPTO on November 8, 2010 along with a Petition requesting an increase in the number of allowed pages of the rebuttable comments. On January 20, 2011, the USPTO granted the Petition in part. The Company then filed updated rebuttal comments on January 27, 2011 in compliance with the granted Petition. The USPTO has considered these updated rebuttal comments, and in a communication dated June 15, 2011, continued to reject all the previously rejected claims. The USPTO also rejected all the claims newly added in the October 8, 2010 Netlist response. In a further communication dated June 21, 2011, the USPTO issued an Action Closing Prosecution indicating that it would confirm the patentability of four claims and reject all the other pending claims. On August 22, 2011, Netlist responded to the Action Closing Prosecution by further amending some claims and making arguments as to the validity of the rejected claims in view of the cited references. The Company submitted rebuttal comments on September 21, 2011. In a further communication dated February 7, 2012, the USPTO issued a Right of Appeal Notice, which also indicated that the previous amendments to claim made by Netlist would be entered, and that the current pending claims, as amended, were patentable. The Company filed a Notice of Appeal at the USPTO on March 8, 2012, within the time period provided for filing the Notice of Appeal and Netlist did not file Notice of Cross-Appeal. The Company filed its Appeal Brief on May 8, 2012, and Netlist filed its Responsive Brief on July 2, 2012. The parties received an Examiner's Answer dated April 16, 2013 from the USPTO that maintained the rejections set forth on the Right of Appeal Notice dated February 7, 2012. The Company filed a Rebuttal Brief on May 16, 2013 and a Request for Oral Hearing on June 7, 2013. The appeal hearing took place in front of the PTAB on November 20, 2013. The PTAB issued its decision on January 16, 2014, affirming the Examiner's decision as to all of the challenged claims. On February 18, 2014, the Company made a request for rehearing of the decision, and in papers dated March 18, 2014, Netlist provided rebuttal comments to the request for rehearing. On August 13, 2014, the PTAB denied our request for rehearing, and on October 15, 2014, the Company filed a Notice of Appeal to the Court of Appeals for the Federal Circuit. An Appeal Brief was filed with the Court of Appeals for the Federal Circuit on February 3, 2015 and an Opposition Brief filed by Netlist in the Court of Appeals for the Federal Circuit is expected as the next substantive step of the proceeding (with Netlist having twice moved the court, without opposition, to extend the time to file its Opposition Brief such that Netlist's Opposition Brief is now due on May 18, 2015), as prosecution otherwise remains closed. The proceeding is expected to continue in accordance with established *Inter Partes* Reexamination procedures.

Table Of Contents**Inphi Corporation****Notes to Unaudited Condensed Consolidated Financial Statements****(Dollars in thousands except share and per share amounts)**

On September 8, 2010, the USPTO ordered the request for *Inter Partes* Reexamination for U.S. Patent No. 7,619,912 and found a substantial new question of patentability based upon different issues that the Company raised as the reexamination requestor. The USPTO accompanied this Reexamination Order of U.S. Patent No. 7,619,912 with its own evaluation of the validity of this patent, and initially determined that all of the claims were patentable based upon the Company's request for *Inter Partes* Reexamination. Netlist did not comment upon this Reexamination Order. The USPTO on February 28, 2011 also merged the Proceedings of our Reexamination of U.S. Patent No. 7,619,912, bearing Control No. 90/001,339 with *Inter Partes* Reexamination Proceeding 95/000,578 filed October 20, 2010 on behalf of SMART Modular Technologies, Inc. and *Inter Partes* Reexamination Proceeding 95/000,579 filed October 21, 2010 on behalf of Google, Inc. In each of these other Reexamination Proceedings, the USPTO had indicated that there existed a substantial new question of patentability with respect to certain claims of U.S. Patent No. 7,619,912, but had not accompanied the Reexamination Orders related thereto with its own evaluation of the validity of this patent, indicating that such evaluation would be forthcoming at a later time. This further evaluation was received in an Office Action dated April 4, 2011, in which the Examiner rejected a substantial majority of the claims based upon a number of different rejections, including certain of the rejections originally proposed by the Company in its Request for Reexamination. This Office Action also indicated that one claim was deemed to be patentable over the prior art of record in the merged Reexamination Proceedings. After seeking and obtaining an extension of time to respond to the Office Action dated April 4, 2011, Netlist served its response on July 5, 2011, which added new claims and made arguments as to why the originally filed claims were not invalid in view of the cited references. Each of the merged Reexamination Requestors, including the Company, submitted rebuttal comments by August 29, 2011. The USPTO considered this Netlist response and each of the rebuttal comments, and in an Office Action dated October 14, 2011, continued to reject most, but not all of the previously rejected claims, as well as rejected claims that had been added by Netlist in its July 5, 2011 response. After seeking and obtaining an extension of time to respond to the Office Action dated October 14, 2011, Netlist served its response on January 13, 2012, which response made amendments based upon subject matter that had been indicated as allowable in the Office Action dated October 14, 2011, added other new claims and made arguments as to why all of these claims should be allowed. The three different merged Reexamination Requestors, including the Company, timely submitted rebuttal comments on or about February 13, 2012. The USPTO issued a Non-final Office Action on November 13, 2012, rejecting some claims and indicating that others contained allowable subject matter. On January 14, 2013, Netlist filed a Response to the Non-final Office Action which presented further claim amendments and evidence supporting its positions regarding patentability. Rebuttal comments from the Company and the other Requestors were filed on February 13, 2013. On March 21, 2014, the USPTO issued an Action Closing Prosecution in which the USPTO indicated that certain of the pending claims were allowable and other of the pending claims were rejected, and on June 18, 2014 issued a Right of Notice of Appeal. By July 18, 2014, the Company as well as other Requestors each filed Notices of Appeal, and Netlist filed a Cross Appeal on July 30, 2014. By September 30, 2014, each of the Requestors as well as Netlist had filed their respective Appeal Briefs, and by October 30, 2014 each of the Requestors as well as Netlist had filed their respective Responses to the previously filed Appeal Briefs. Reply Briefs by Requestors and Netlist were filed on or before February 18, 2015, certain of the Requestors and Netlist filed requests for Oral Hearing at the USPTO by March 17, 2015, and consideration by the USPTO will be the next substantive step of the proceeding, as currently prosecution otherwise will remain closed. The merged proceeding is expected to continue in accordance with established *Inter*

Partes Reexamination procedures.

The reexamination proceedings could result in a determination that the patents-in-suit, in whole or in part, are valid or invalid, as well as modifications of the scope of the patents-in-suit.

Based on these papers the Court in January 2014 ordered a continued stay of the proceedings, took the litigation off the active court calendar, and requested that the parties file a joint status report on May 1, 2014 and every 120 days thereafter advising the Court as to status of the reexamination proceedings at which times, the Court could decide to maintain or lift the stay.

While the Company intends to defend the foregoing lawsuit vigorously, litigation, whether or not determined in the Company's favor or settled, could be costly and time-consuming and could divert management's attention and resources, which could adversely affect the Company's business.

Based on the nature of the litigation, the Company is currently unable to predict the final outcome of this lawsuit and therefore, cannot determine the likelihood of loss nor estimate a range of possible loss. However, because of the nature and inherent uncertainties of litigation, should the outcome of these actions be unfavorable, the Company's business, financial condition, results of operations or cash flows could be materially and adversely affected.

In March 2015, the Company settled a patent dispute involving Cortina and Vitesse Semiconductor Corporation (Vitesse). The patent dispute involved a certain patent family owned by Vitesse associated with error correction. The Company paid Vitesse \$750 to resolve the dispute. Based on the Agreement and Plan of Merger dated July 30, 2014, as amended by Amendment No. 1 to the Agreement and Plan of Merger dated September 25, 2014, the Company was indemnified for this settlement arising from this claim, up to an amount of \$750.

Indemnifications

In the ordinary course of business, the Company may provide indemnifications of varying scope and terms to customers, vendors, lessors, investors, directors, officers, employees and other parties with respect to certain matters, including, but not limited to, losses arising out of the Company's breach of such agreements, services to be provided by the Company, or from intellectual property infringement claims made by third-parties. These indemnifications may survive termination of the underlying agreement and the maximum potential amount of future payments the Company could be required to make under these indemnification provisions may not be subject to maximum loss clauses. The Company has not incurred material costs to defend lawsuits or settle claims related to these indemnifications. Accordingly, the Company has no liabilities recorded for these agreements as of March 31, 2015 and December 31, 2014.

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Inphi Corporation

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(Dollars in thousands except share and per share amounts)

15. Subsequent Events

In April 2015, the Compensation Committee granted 1,196,648 RSUs to employees and consultants.

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

The following discussion of our financial condition and results of operations should be read in conjunction with the condensed consolidated financial statements and notes to those statements included elsewhere in this Quarterly Report. This Management's Discussion and Analysis of Financial Condition and Results of Operations and this report contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. When used in this report, the terms "may," "might," "will," "objective," "intend," "should," "could," "can," "would," "expect," "predict," "potential," "plan," or the negative of these terms, and similar expressions intended to identify forward-looking statements. These statements are statements that relate to future periods and include statements regarding our anticipated trends and challenges in our business and the markets in which we operate, including the market for 40G and 100G high-speed analog semiconductor solutions, our plans for future products, expansion of our product offerings and enhancements of existing products, our expectations regarding our expenses and revenue, sources of revenue, our tax benefits, the benefits of our products and services, our technological capabilities and expertise, timing of the development of our products, the status and anticipated impact of the Cortina acquisition, our anticipated cash needs and our estimates regarding our capital requirements and our needs for additional financing, our anticipated growth and growth strategies, our ability to retain and attract customers, particularly in light of our dependence on a limited number of customers for a substantial portion of our revenue, our expectations regarding competition, interest rate sensitivity, adequacy of our disclosure controls, our legal proceedings and warranty claims. These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these or any other forward-looking statements. These risks and uncertainties include, but are not limited to, those risks discussed below, as well as factors affecting our results of operations, our ability to manage our growth, our ability to sustain or increase profitability, demand for our solutions, the effect of declines in average selling prices for our products, our ability to compete, our ability to rapidly develop new technology and introduce new products, our ability to safeguard our intellectual property, trends in the semiconductor industry and fluctuations in general economic conditions, and the risks set forth throughout this Report, including the risks set forth under Part II, "Item 1A, Risk Factors". Readers are cautioned not to place undue reliance on these forward-looking statements, which are based on current expectations and reflect management's opinions only as of the date hereof. These forward-looking statements speak only as of the date of this Report. We expressly disclaim any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements contained herein to reflect any change in our expectations with regard thereto or any changes in events, conditions or circumstances on which any such statement is based.

All references to "Inphi," "we," "us" or "our" mean Inphi Corporation.

Inphi®, iMB™, iKON™ and the Inphi logo are trademarks or service marks owned by Inphi. All other trademarks, service marks and trade names appearing in this report are the property of their respective owners.

Overview

Our Company

We are a fabless provider of high-speed analog and mixed signal semiconductor solutions for the communications, data center and computing markets. Our semiconductor solutions provide high signal integrity at leading-edge data speeds while reducing system power consumption. Our semiconductor solutions are designed to address bandwidth bottlenecks in networks, maximize throughput and minimize latency in computing environments and enable the rollout of next generation communications, data center and computing infrastructures. Our solutions provide a vital high-speed interface between analog signals and digital information in high-performance systems such as telecommunications transport systems, enterprise networking equipment, data centers and enterprise servers, storage platforms, test and measurement equipment and military systems. We provide 100G high-speed analog semiconductor solutions for the communications market and high-speed memory interface solutions for the computing market. We have a wide range product portfolio with many products sold in communication and datacenter markets as of March 31, 2015.

In the first quarter of 2015, we started sampling a new product in our 45GBaud Linear Coherent Product Family, IN4518SZ. The IN4518SZ is a quad linear differential to single-ended Mach-Zehnder Modulator Driver, pin-compatible with the linear driver IN3214SZ, for 200G coherent Optical interconnect applications. The IN4518SZ extends the reach of 200G coherent for long haul applications and enables one set of hardware to serve multiple segments in the long haul and metro markets.

A detailed discussion of our business may be found in Part I, Item 1, "Business," of our 2014 Annual Report on Form 10-K.

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Quarterly Update

As discussed in more detail below, for the three months ended March 31, 2015 compared to the three months ended March 31, 2014, we delivered the following financial performance:

- Total revenues increased by \$28.0 million, or 90%, to \$59.2 million.
- Gross profit as a percentage of revenue decreased from 65% to 51%.
- Total operating expenses increased by \$14.7 million, or 71%, to \$35.4 million.
- Loss from operations increased by \$4.9 million, or 773%, to a loss of \$5.5 million.
- Diluted loss per share increased by \$0.23, to \$(0.26).

The increase in our revenue for the three months ended March 31, 2015 was a result of the inclusion of revenue from the October 4, 2014 acquisition of Cortina in the three months ended March 31, 2015 that was not part of our revenue in the three months ended March 31, 2014, as well as an increase in consumption of our dual linear transimpedance amplifiers (TIA), and quad linear driver products.

The decline in gross margin was primarily due to the amortization of inventory fair value step-up related to the acquired Cortina inventories sold during the three months ended March 31, 2015 and amortization of the acquired intangibles.

Total operating expenses increased due primarily to an increase in headcount and stock-based compensation expense. Our expenses primarily consist of personnel costs, which include compensation, benefits, payroll related taxes and stock-based compensation. From April 2014 to March 2015, our headcount increased by 59 new employees, primarily in the engineering department. In addition, the acquisition of Cortina added 145 employees in the fourth quarter of 2014. We expect expenses to continue to increase in absolute dollars as we continue to invest resources to develop more products and to support the growth of our business. Our diluted loss per share increased primarily due to increase operating expenses and provision for income taxes, partially offset by increase in revenues.

Our cash and cash equivalents were \$39.5 million at March 31, 2015, compared with \$30.4 million at December 31, 2014. Cash provided by operating activities of \$12.3 million during the three months ended March 31, 2015 compared to cash used in operating activities of \$2.1 million during the three months ended March 31, 2014. Cash used in investing activities during the three months ended March 31, 2015 was \$3.2 million primarily due to purchases of marketable securities and purchases of property and equipment of \$8.0 million offset by sales and maturities of marketable securities of \$4.7 million. Cash provided by financing activities of \$133 thousand was primarily due to proceeds from exercise of stock options and employee stock purchase plan of \$3.0 million and excess tax benefit related to stock-based compensation of \$1.3 million, offset by minimum tax withholding paid on behalf of employees of \$4.1 million.

Critical Accounting Policies and Estimates

The preparation of financial statements in accordance with U.S. generally accepted accounting principles, or GAAP, requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of net revenue and expenses in the reporting period. We regularly evaluate our estimates and assumptions related to allowances for doubtful accounts, warranty reserves, inventory reserves, stock-based compensation expense, goodwill valuation, deferred income tax asset valuation allowances, uncertain tax positions, litigation and other loss contingencies. We base our estimates and assumptions on current facts, historical experience and various other factors that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities and the recording of revenue, costs and expenses that are not readily apparent from other sources. The actual results experienced by us may differ materially and adversely from our estimates. To the extent there are material differences between our estimates and the actual results, our future results of operations will be affected. For a description of our critical accounting policies and estimates, please refer to the “Critical Accounting Policies and Estimates” section of our Management’s Discussion and Analysis of Financial Condition and Results of Operations contained in our Annual Report on Form 10-K for the year ended December 31, 2014. There have been no material changes in any of our critical accounting policies during the three months ended March 31, 2015.

Table Of Contents**Results of Operations**

The following table sets forth a summary of our statement of operations as a percentage of each line item to the revenue:

	Three Months	
	Ended March 31,	
	2015	2014
Total revenue	100%	100 %
Cost of revenue	49	35
Gross profit	51	65
Operating expense:		
Research and development	38	44
Sales and marketing	12	13
General and administrative	10	10
Total operating expenses	60	67
Loss from operations	(9)	(2)
Other income	—	1
Loss before income taxes	(9)	(1)
Provision for income taxes	7	2
Net loss	(16)%	(3)%

Comparison of Three Months Ended March 31, 2015 and 2014***Revenue***

	Three Months Ended March 31, Change			
	2015	2014	Amount	%
	(dollars in thousands)			
Revenue	\$59,160	\$31,189	\$27,971	90%

Total revenue for the three months ended March 31, 2015 increased by \$28.0 million primarily due to an increase in both number of units sold of 52% and average selling price of 25%. The increases in number of units sold and average selling price was due mainly from increased sales and mix of our higher priced products, including dual linear TIA, quad linear driver products and high-speed interconnect and optical transport products from the Cortina acquisition.

Cost of Revenue and Gross Profit

	Three Months Ended March 31,		Change	
	2015	2014	Amount	%
	(dollars in thousands)			
Cost of revenue	\$29,238	\$11,063	\$18,175	164%
Gross profit	\$29,922	\$20,126	\$9,796	49%
Gross profit as a percentage of revenue	51%	65%	—	(14)%

Cost of revenue and gross profit for the three months ended March 31, 2015 increased by \$18.2 million and \$9.8 million, respectively, compared to the prior year primarily due to increase in revenue from sales our dual linear TIA, quad linear driver products, high-speed interconnect and optical transport products which generated higher margin. Product costs, as a percentage of revenue decreased due to the amortization of inventory fair value step-up related to the acquired Cortina inventories of \$6.1 million, sold during the three months ended March 31, 2015, and amortization of the acquired intangibles of \$2.9 million.

Research and Development

	Three Months Ended March 31,		Change	
	2015	2014	Amount	%
	(dollars in thousands)			
Research and development	\$22,722	\$13,739	\$8,983	65%

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Research and development expense for the three months ended March 31, 2015 increased by \$9.0 million due to an increase in research and development headcount and equity awards, which resulted in a \$7.8 million increase in personnel costs and stock-based compensation expense. Consulting expense and CAD software tool license expense increased by \$0.6 million and \$1.6 million primarily due to an increase in headcount and engineering activities, respectively. In addition, external test services and pre-production engineering mask costs increased by \$0.6 million. Depreciation and allocated expenses increased by \$2.0 million, primarily, due to an increase in equipment and research and development activities. The increases were partially offset by increase in reimbursement from customers related to research and development contracts of \$4.2 million. The increase in research and development expense was primarily driven by our strategy to expand our product offerings and enhance our existing products.

Sales and Marketing

	Three Months Ended March 31,		Change	
	2015	2014	Amount	%
	(dollars in thousands)			
Sales and marketing	\$6,869	\$3,950	\$2,919	74%

Sales and marketing expense for the three months ended March 31, 2015 increased primarily due to increase in personnel costs, including stock-based compensation expense of \$1.8 million. In addition commission expense increased by \$0.5 million due to higher revenue.

General and Administrative

	Three Months Ended March 31,		Change	
	2015	2014	Amount	%
	(dollars in thousands)			
General and administrative	\$5,812	\$3,065	\$2,747	90%

General and administrative expenses for the three months ended March 31, 2015 increased by \$2.7 million primarily due to increase in personnel costs and stock-based compensation expense increased by \$1.1 million due to new hires from Cortina and stock grants awarded. In addition, outside legal and accounting fees increased by \$0.8 million in connection with the Cortina acquisition and expenditures for litigation matters described in Note 14 of the notes to our financial statements.

Provision for Income Tax

	Three Months Ended March 31,		Change	
	2015	2014	Amount	%
	(dollars in thousands)			
Provision for income tax	\$4,394	\$527	\$3,867	734%

We normally determine our interim provision using an estimated single annual effective tax rate for all tax jurisdictions. ASC 740 provides that when an entity operates in a jurisdiction that has generated ordinary losses on a year-to-date basis or on the basis of the results anticipated for the full fiscal year and no benefit can be recognized on those losses, a separate effective tax rate should be computed and applied to ordinary income (or loss) in that jurisdiction. We incurred pretax loss during the three months ended March 31, 2015 and 2014 from the Singapore operations and will not recognize tax benefit of the losses due to full valuation allowance established against deferred tax assets. Thus, separate effective tax rate was applied to losses from each loss jurisdiction to compute the interim tax expense. In addition, the discrete method was used to calculate the interim tax expense for U.S. operations for the three months ended March 31, 2014. We determined that a calculation of an annual effective tax rate would not represent a reliable estimate due to the sensitivity of the annual effective tax rate estimate to even minimal changes to forecasted earnings of the U.S. operations for the year. Under the discrete method, we determine the tax expense based upon actual results as if the interim period were an annual period.

The income tax expense of \$4.4 million for the three months ended March 31, 2015 reflects an effective tax rate of (83%). This effective tax rate for the three months ended March 31, 2015 differed from the statutory rate of 34% primarily due to the change in valuation allowance, foreign income taxes provided at lower rates, geographic mix in operating results, unrecognized tax benefits and recognition of state research and development credits. The difference between the effective tax rates and the 34% for the three months ended March 31, 2015 compared to the three months ended March 31, 2014, is a result of utilizing the annualized effective tax rate methodology compared to the discrete methodology in the prior year.

The income tax expense of \$0.5 million for the three months ended March 31, 2014 reflects an effective tax rate of (113%). This effective tax rate for the three months ended March 31, 2014 differed from the statutory rate of 34%

primarily due to the change in valuation allowance, foreign income taxes provided at lower rates, geographic mix in operating results, unrecognized tax benefits and recognition of state research and development credits.

Table Of Contents**Liquidity and Capital Resources**

As of March 31, 2015, we had cash, cash equivalents and investments in marketable securities of \$78.2 million. Our primary uses of cash are to fund operating expenses, purchase inventory and acquire property and equipment. Cash used to fund operating expenses is impacted by the timing of when we pay these expenses, as reflected in the changes in our outstanding accounts payable and accrued expenses. Our primary sources of cash are cash receipts on accounts receivable from our revenue. Aside from the growth in amounts billed to our customers, net cash collections of accounts receivable are impacted by the efficiency of our cash collections process, which can vary from period to period, depending on the payment cycles of our major customers.

The following table summarizes our cash flows for the periods indicated:

	Three Months	
	Ended March 31,	
	2015	2014
	(in thousands)	
Net cash provided by (used in) operating activities	\$12,254	\$(2,128)
Net cash used in investing activities	(3,211)	(1,638)
Net cash provided by (used in) financing activities	133	(67)
Net increase (decrease) in cash and cash equivalents	\$9,176	\$(3,833)

Net Cash Provided by (Used in) Operating Activities

Net cash provided by operating activities during the three months ended March 31, 2015 primarily reflected decreases in inventories of \$3.3 million and prepaid expenses and other assets of \$1.6 million, change in income tax payable/receivable of \$2.3 million, depreciation and amortization of \$6.4 million, stock-based compensation expense of \$6.4 million and deferred income taxes of \$2.6 million, partially offset by net loss of \$9.7 million and excess tax benefit related to stock-based compensation of \$1.3 million. Our inventories decreased due to shipments and amortization of inventory step-up value and prepaid expenses and other assets decreased due to settlement of non-trade receivable.

Net cash used in operating activities during the three months ended March 31, 2014 primarily reflected increases in accounts receivable of \$5.0 million and prepaid expenses and other assets of \$1.8 million, decrease in accrued expenses of \$1.3 million and net loss of \$1.0 million partially offset by depreciation and amortization of \$2.4 million and stock-based compensation of \$4.5 million. Our receivables increased due to shipments made in the last month of

the quarter. Our prepaid expenses increased as a result of new subscriptions. Our accrued expenses decreased as a result of payment of employee related costs.

Net Cash Used in Investing Activities

Net cash used in investing activities during the three months ended March 31, 2015, consisted of cash used to purchase property and equipment of \$3.4 million and purchases of marketable securities of \$4.6 million, partially offset by sales and maturities of marketable securities of \$4.7 million.

Net cash used in investing activities during the three months ended March 31, 2014, consisted of cash used to purchase property and equipment of \$3.2 million and purchases of marketable securities of \$16.7 million, partially offset by sales and maturities of marketable securities of \$18.2 million.

Net Cash Provided by (Used in) Financing Activities

Net cash provided by financing activities during the three months ended March 31, 2015 consisted of proceeds from exercise of stock options and employee stock purchase plan of \$3.0 million and excess tax benefit related to stock-based compensation of \$1.3 million, offset by minimum tax withholding paid on behalf of employees for restricted stock units of \$4.1 million.

Net cash provided by financing activities during the three months ended March 31, 2014 consisted of proceeds from exercise of stock options and employee stock purchase plan of \$2.5 million, offset by minimum tax withholding paid on behalf of employees for restricted stock units of \$2.6 million.

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Operating and Capital Expenditure Requirements

Our principal source of liquidity as of March 31, 2015 consisted of \$78.2 million of cash, cash equivalents and investments in marketable securities, of which \$27.3 million is held by our foreign subsidiaries. Based on our current operating plan, we believe that our existing cash and cash equivalents from operations will be sufficient to finance our operational cash needs through at least the next 12 months. In the future, we expect our operating and capital expenditures to increase as we increase headcount, expand our business activities and grow our end customer base which will result in higher needs for working capital. Our ability to generate cash from operations is also subject to substantial risks described in Part II, Item 1A, Risk Factors. If any of these risks occur, we may be unable to generate or sustain positive cash flow from operating activities. We would then be required to use existing cash and cash equivalents to support our working capital and other cash requirements. If additional funds are required to support our working capital requirements, acquisitions or other purposes, we may seek to raise funds through debt financing or from other sources. If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our stockholders could be significantly diluted, and these newly-issued securities may have rights, preferences or privileges senior to those of existing stockholders. If we raise additional funds by obtaining loans from third parties, the terms of those financing arrangements may include negative covenants or other restrictions on our business that could impair our operating flexibility, and would also require us to incur interest expense. We can provide no assurance that additional financing will be available at all or, if available, that we would be able to obtain additional financing on terms favorable to us.

We do not plan to repatriate cash balances from foreign subsidiaries to fund our operations in the United States. There may be adverse tax effects upon repatriation of these funds to the United States.

Contractual Payment Obligations

Our contractual obligations for 2015 and beyond are included in our Annual Report on Form 10-K for the year ended December 31, 2014, filed with the SEC on March 10, 2015. Our obligations for 2015 and beyond have not changed materially as of March 31, 2015.

Off-Balance Sheet Arrangements

At March 31, 2015 , we had no material off-balance sheet arrangements, other than our facility operating leases.

Recent Authoritative Accounting Guidance

See note 2 of the notes to our unaudited condensed consolidated financial statements for information regarding recently issued accounting pronouncements.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

Interest Rate Sensitivity

We had cash and cash equivalents and investments in marketable securities of \$78.2 million and \$69.3 million at March 31, 2015 and December 31, 2014, respectively, which was held for working capital purposes. Our exposure to market interest-rate risk relates primarily to our investment portfolio. We do not use derivative financial instruments to hedge the market risks of our investments. We manage our total portfolio to encompass a diversified pool of investment-grade securities to preserve principal and maintain liquidity. We place our investments with high-quality issuers, money market funds and debt securities. Our investment portfolio as of March 31, 2015 consisted of money market funds, U.S. Treasuries, municipal bonds, corporate bonds, and asset backed securities. Investments in both fixed rate and floating rate instruments carry a degree of interest rate risk. Fixed rate securities may have their market value adversely impacted due to an increase in interest rates, while floating rate securities may produce less income than expected if interest rates fall. Due in part to these factors, our future investment income may fall short of expectations due to changes in interest rates or if the decline in fair value of our publicly traded debt investments is judged to be other-than-temporary. We may suffer losses in principal if we are forced to sell securities that have declined in market value due to changes in interest rates. However, because any debt securities we hold are classified as available-for-sale, no gains or losses are realized in the income statement due to changes in interest rates unless such securities are sold prior to maturity or unless declines in value are determined to be other-than-temporary. These securities are reported at fair value with the related unrealized gains and losses, net of applicable taxes, included in accumulated other comprehensive income (loss), reported in a separate component of stockholders' equity. Although, we currently expect that our ability to access or liquidate these investments as needed to support our business activities will continue, we cannot ensure that this will not change.

In a low interest rate environment, as short-term investments mature, reinvestment may occur at less favorable market rates. Given the short-term nature of certain investments, the current interest rate environment may negatively impact our investment income.

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Foreign Currency Risk

To date, our international customer and vendor agreements have been denominated almost exclusively in United States dollars. Accordingly, we have limited exposure to foreign currency exchange rates and do not currently enter into foreign currency hedging transactions.

Item 4. Controls and Procedures

Evaluation of disclosure controls and procedures

We maintain “disclosure controls and procedures,” as such term is defined in Rule 13a-15 (e) under the Securities Exchange Act 1934, or the Exchange Act, that are designed to ensure that information required to be disclosed by us in reports we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission’s rules and forms and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow for timely decisions regarding required disclosure. In designing and evaluating the disclosure controls and procedures, management recognizes that such controls and procedures, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures met. Our disclosure controls and procedures have been designed to meet reasonable assurance standards, but management does not expect that our disclosure controls and procedures will prevent or detect all error and all fraud. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any disclosure controls and procedures is also based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions.

Based on their evaluation as of the end of the period covered by this Quarterly Report on Form 10-Q, our Chief Executive Officer and Chief Financial Officer have concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control over Financial Reporting

There has been no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during our most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. *Legal Proceedings*

The information required by this Item 1 is set forth under Note 14 of Notes to Unaudited Condensed Consolidated Financial Statements, included in Part I, Item 1 of this Report, and is hereby incorporated by reference herein. For an additional discussion of certain risks associated with legal proceedings, see Item 1A, Risk Factors below.

Item 1A. *Risk Factors*

You should carefully consider the risks described in Part I, Item 1A, Risk Factors, of our Annual Report on Form 10-K for the year ended December 31, 2014, which are incorporated by reference herein, as our business, financial condition and results of operations could be adversely affected by any of the risks and uncertainties described therein. There have been no material changes in our risk factors from those disclosed in our Annual Report on Form 10-K for the year ended December 31, 2014.

Table Of Contents**Item 6. Exhibits**

(a) *Exhibits.* The following Exhibits are attached hereto and incorporated herein by reference:

Exhibit Number	Description
3(i)	Restated Certificate of Incorporation of the Registrant (incorporated by reference to exhibit 3(i) of the Registrant's annual report on Form 10-K filed with the SEC on March 7, 2011).
3(ii)	Amended and Restated Bylaws of the Registrant (incorporated by reference to exhibit 3(ii).2 filed with Registration Statement on Form S-1 (File No. 333-167564)).
4.1	Specimen Common Stock Certificate (incorporated by reference to exhibit 4.1 filed with Registration Statement on Form S-1 (File No. 333-167564)).

4.2 Amended and Restated Investors' Rights Agreement dated as of August 12, 2010 (incorporated by reference to exhibit 4.2 of the Registrant's annual report on Form 10-K filed with the SEC on March 7, 2011).

31.1 Certificate of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350).

31.2 Certificate of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350).

32.1(1) Certificate of Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350).

32.2(1) Certificate of Chief Financial Officer pursuant to Section 906 of the

Sarbanes-Oxley
Act of 2002 (18
U.S.C. Section
1350).

101.INS XBRL Instance
Document

101.SCH XBRL
Taxonomy
Extension
Schema

101.CAL XBRL
Taxonomy
Extension
Calculation
Linkbase

101.DEF XBRL
Taxonomy
Extension
Definition
Linkbase

101.LAB XBRL
Taxonomy
Extension Label
Linkbase

101.PRE XBRL
Taxonomy
Extension
Presentation
Linkbase

(1) The material contained in Exhibit 32.1 and Exhibit 32.2 is not deemed “filed” with the SEC and is not to be incorporated by reference into any filing of the Company under the Securities Act of 1933 or the Exchange Act, whether made before or after the date hereof and irrespective of any general incorporation language contained in such filing, except to the extent that the registrant specifically incorporates it by reference.

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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.

INPHI CORPORATION,
(Registrant)

By: /s/ Ford Tamer

Ford Tamer
Chief Executive Officer
(Duly Authorized and Principal Executive Officer)

By: /s/ John Edmunds

John Edmunds
Chief Financial Officer
(Principal Financial Officer and Principal Accounting Officer)

May 6, 2015

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