UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

May 4, 2010

Date of Report (Date of earliest event reported)

SONUS NETWORKS, INC.

(Exact Name of Registrant as Specified in its Charter)

DELAWARE (State or Other Jurisdiction of Incorporation) 001-34115

(Commission File Number)

04-3387074 (IRS Employer Identification No.)

7 TECHNOLOGY PARK DRIVE, WESTFORD, MASSACHUSETTS 01886 (Address of Principal Executive Offices) (Zip Code)

(978) 614-8100

(Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

The information in this Current Report on Form 8-K and the exhibit attached hereto shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), otherwise subject to the liabilities of that Section or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Item 2.02. Results of Operations and Financial Condition.

On May 4, 2010, Sonus Networks, Inc. issued a press release reporting financial results for the quarter ended March 31, 2010. A copy of the press release is furnished as Exhibit 99.1 hereto.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

The following exhibit relating to Item 2.02 shall be deemed to be furnished, and not filed:

99.1 Press release of Sonus Networks, Inc. dated May 4, 2010 reporting its financial results for the quarter ended March 31, 2010.

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 hereunto duly authorized.

Date: M	Iay 4, 2010SONUS NETWORKS, INC.						
	By: /s/ Jeffrey M. Snider Jeffrey M. Snider Senior Vice President and General Counsel						
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	Exhibit Index						
99.1	Press release of Sonus Networks, Inc. dated May 4, 2010 reporting its financial results for the quarter ended March 31, 2010.						

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SONUS NETWORKS REPORTS 2010 FIRST QUARTER RESULTS

Westford, MA, May 4, 2010 — Sonus Networks, Inc. (Nasdaq: SONS), a market leader in next generation IP-based network solutions, today announced results for the quarter ended March 31, 2010.

Revenue for the first quarter of fiscal 2010 was \$62.4 million, compared to \$68.7 million in the fourth quarter of fiscal 2009 and \$41.0 million for the first quarter of fiscal 2009. The Company's net loss on a GAAP basis for the first quarter of fiscal 2010 was \$0.1 million, or \$0.00 per share, compared to net income of \$10.3 million, or \$0.04 per diluted share, for the fourth quarter of fiscal 2009, and a net loss of \$16.2 million, or \$0.06 per share, for the first quarter of fiscal 2009.

"We are pleased with our strong first quarter results, which reflect the successful execution of our strategic plan," said Richard Nottenburg, President and Chief Executive Officer of Sonus Networks. "During the quarter, we continued to extend our leadership position as we added new customers, penetrated new markets and made significant enhancements to our core products and service offerings. We look forward to launching new products on our next generation platform in the near future."

Conference Call Details:

Sonus Networks will host a conference call for analysts and investors to discuss its first quarter 2010 results as well as certain forward-looking information today at 4:45 p.m. ET.

To listen live via telephone:

Dial-in number: 800-908-9173 International Callers: +1 212-231-2900

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To listen via internet:

Sonus Networks will host a live webcast of the conference call. To access the webcast, visit www.sonusnet.com, About Us, Investor Relations.

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About Sonus Networks

Sonus Networks, Inc. is a leader in IP networking with proven expertise in delivering secure, reliable and scalable next generation infrastructure and subscriber solutions. With customers in over 50 countries across the globe and over a decade of experience in transforming networks to IP, Sonus has enabled service providers and enterprises to capture and retain users and generate significant ROI. Sonus products include media and signaling gateways, policy/routing servers, session border controllers and subscriber feature servers. Sonus products are supported by a global services team with experience in design, deployment and maintenance of some of the world's largest and most complex IP networks. For more information visit www.sonusnet.com.

This release may contain forward-looking statements regarding future events that involve risks and uncertainties. Readers are cautioned that these forward-looking statements are only predictions and may differ materially from actual future events or results. Readers are referred to Item 1A "Risk Factors" of Sonus' Annual Report on Form 10-K for the year ended December 31, 2009 and Form 10-Q for the quarter ended March 31, 2010, which identify important risk factors that could cause actual results to differ from those contained in the forward-looking statements. Any forward-looking statements represent Sonus' views only as of today and should not be relied upon as representing Sonus' views as of any subsequent date. While Sonus may elect to update forward-looking statements at some point, Sonus specifically disclaims any obligation to do so, except as required by law.

Sonus is a registered trademark of Sonus Networks, Inc. All other company and product names may be trademarks of the respective companies with which they are associated.

For more information, please contact:

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SONUS NETWORKS, INC. Condensed Consolidated Statements of Operations (in thousands, except per share data) (unaudited)

	Three months ended				
	 March 31, 2010	D	ecember 31, 2009		March 31, 2009
Revenue:					
Product	\$ 36,278	\$	47,009	\$	19,403
Service	26,130		21,703		21,609
Total revenue	 62,408		68,712		41,012
Cost of revenue:					
Product	12,301		11,852		6,134
Service	11,929		11,481		11,663
Total cost of revenue	24,230		23,333		17,797
Gross profit	 38,178		45,379		23,215
Gross profit %					
Product	66.1%		74.8%		68.4%
Service	54.3%		47.1%		46.0%
Total gross profit %	61.2%		66.0%		56.6%
Operating expenses:					
Research and development	14,940		13,869		16,353
Sales and marketing	13,594		12,911		12,147
General and administrative	10,144		10,958		10,495
Restructuring					1,984
Total operating expenses	38,678		37,738		40,979
Income (loss) from operations	(500)		7,641		(17,764)
Interest expense	(13)		(89)		(79)
Interest income	515		592		1,649
Other income (expense), net	 10		47		(7)
Income (loss) before income taxes	12		8,191		(16,201)
Income tax benefit (provision)	 (146)		2,118		(26)
Net income (loss)	\$ (134)	\$	10,309	\$	(16,227)
Earnings (loss) per share:					
Basic					
Diluted	\$ 	\$	0.04	\$	(0.06)
	\$ _	\$	0.04	\$	(0.06)
Shares used to compute earnings (loss) per share:					()
Basic	274,701		274,359		273,095
Diluted	274,701		275,152		273,095
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SONUS NETWORKS, INC. Condensed Consolidated Balance Sheets (in thousands) (unaudited)

	March 31, 2010		December 31, 2009
Assets			
Current assets:			
Cash and cash equivalents	\$ 64,861	\$	125,323
Marketable securities	281,799		239,223
Accounts receivable, net	32,385		47,998
Inventory, net	20,119		21,925
Deferred income taxes	640		562
Other current assets	20,426		17,508
Total current assets	420,230		452,539
Property and equipment, net	13,518		14,646
Intangible assets, net	2,203		341
Goodwill	5,059		5,053
Investments	66,299		49,598
Deferred income taxes	730		711
Other assets	17,035		17,849
	\$ 525,074	\$	540,737

Liabilities and stockholders' equity

Accounts payable	\$ 8,506	\$ 5,337
Accrued expenses	14,265	19,292
Current portion of deferred revenue	59,149	74,748
Current portion of long-term liabilities	525	753
Total current liabilities	 82,445	100,130
Deferred revenue	24,451	25,242
Long-term liabilities	1,145	1,127
Total liabilities	 108,041	 126,499
Commitments and contingencies		
Stockholders equity:		
Common stock	278	277
Additional paid-in capital	1,289,415	1,286,326
Accumulated deficit	(878,944)	(878,810)
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Accumulated other comprehensive income	6,551	6,712
Treasury stock	(267)	(267)
Total stockholders' equity	417,033	 414,238
	\$ 525.074	\$ 540,737

SONUS NETWORKS, INC. Condensed Consolidated Statements of Cash Flows (in thousands) (unaudited)

		Three months ended			
	1	March 31, 2010		March 31, 2009	
Cash flows from operating activities:		2010		2000	
Net loss	\$	(134)	\$	(16,227)	
Adjustments to reconcile net loss to cash flows provided by operating activities:					
Depreciation and amortization of property and equipment		2,458		2,502	
Amortization of intangible assets		138		96	
Stock-based compensation		2,486		3,040	
Loss on disposal of property and equipment		57		2	
Deferred income taxes		_		(38)	
Changes in operating assets and liabilities:					
Accounts receivable		15,477		24,885	
Inventory		2,852		(2,615)	
Other operating assets		(2,098)		(4,148)	
Accounts payable		3,547		(3,348)	
Accrued expenses		(5,039)		(8,951)	
Deferred revenue		(16,445)		13,712	
Net cash provided by operating activities		3,299		8,910	
Cash flows from investing activities:					
Purchases of property and equipment		(1,763)		(770)	
Purchase of intangible assets		(2,000)			
Purchases of marketable securities		(121,856)		(11,936)	
Sale/maturities of marketable securities		61,493		82,895	
Increase in litigation escrow				(9,500)	
Net cash provided by (used in) investing activities		(64,126)		60,689	
Cash flows from financing activities:					
Sale of common stock in connection with employee stock purchase plan		609		529	
Proceeds from exercise of stock options		35		1	
Payment of tax withholding obligations related to net share settlements of restricted stock awards		(180)		(122)	
Principal payments of capital lease obligations		(55)		(122)	
Net cash provided by financing activities		409		344	
		(14)		(71)	
Effect of exchange rate changes on cash and cash equivalents		(44)		(71)	
Net increase (decrease) in cash and cash equivalents		(60,462)		69,872	
Cash and cash equivalents, beginning of year		125,323		122,207	
Cash and cash equivalents, end of period	\$	64,861	\$	192,079	

(In thousands) (unaudited)

The following tables provide the details of stock-based compensation and amortization of intangible assets included in the Company's Condensed Consolidated Statements of Operations and the line items in which these amounts are reported. Additional information regarding these items is available in the Investor Relations section of our website at http://www.sonusnet.com. The information contained on our website or that can be accessed through our website should not be considered to be part of, or incorporated into, this press release.

		Three months ended				
	March 31, 2010	March 31, December 31,		March 31, 2009		
Stock-based compensation						<u></u>
Cost of revenue - product	\$	71	\$	63	\$	116
Cost of revenue - service		419		449		465
Cost of revenue		490		512		581
Research and development expense		606		706		767
Sales and marketing expense		729		812		1,044
General and administrative expense		661		891		648
Operating expense	1,	996		2,409		2,459
Total stock-based compensation	<u>\$</u> 2,	486	\$	2,921	\$	3,040
Amortization of intangible assets						
Cost of revenue - product	\$	38	\$	40	\$	96
Research and development		100				
Total amortization of intangible assets	\$	138	\$	40	\$	96