

SIRIUS XM HOLDINGS INC.

Form 10-Q

October 25, 2017

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

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

FOR THE QUARTERLY PERIOD ENDED SEPTEMBER 30, 2017

OR

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

FOR THE TRANSITION PERIOD FROM _____ TO _____
COMMISSION FILE NUMBER 001-34295

SIRIUS XM HOLDINGS INC.

(Exact name of registrant as specified in its charter)

Delaware

38-3916511

(State or other jurisdiction of
incorporation or organization)

(I.R.S. Employer Identification No.)

1290 Avenue of the Americas, 11th Floor

New York, New York

10104

(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (212) 584-5100

Former name, former address and former fiscal year, if changed since last report: Not Applicable

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 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," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.:

Large accelerated filer Accelerated filer Non-accelerated filer

(Do not check if a smaller reporting company)

Smaller reporting company Emerging growth company

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

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

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Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date.

(Class)	(Outstanding as of October 23, 2017)
COMMON STOCK, \$0.001 PAR VALUE	4,595,820,002 SHARES

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(UNAUDITED)

(in thousands, except per share data)	For the Three Months Ended September 30,		For the Nine Months Ended September 30,	
	2017	2016	2017	2016
Revenue:				
Subscriber revenue	\$ 1,136,027	\$ 1,069,746	\$ 3,325,295	\$ 3,112,712
Advertising revenue	41,462	34,268	117,656	99,330
Equipment revenue	32,337	31,306	91,669	86,285
Other revenue	169,770	142,326	486,611	415,895
Total revenue	1,379,596	1,277,646	4,021,231	3,714,222
Operating expenses:				
Cost of services:				
Revenue share and royalties	296,498	272,823	866,691	788,952
Programming and content	98,239	89,015	290,038	257,760
Customer service and billing	94,655	94,923	286,754	285,502
Satellite and transmission	21,378	22,224	61,557	80,609
Cost of equipment	8,254	9,674	24,537	29,181
Subscriber acquisition costs	119,555	120,111	372,197	381,516
Sales and marketing	114,519	99,194	318,135	279,278
Engineering, design and development	29,433	19,254	81,033	57,588
General and administrative	83,187	90,369	245,995	249,052
Depreciation and amortization	79,913	67,880	230,136	202,215
Total operating expenses	945,631	885,467	2,777,073	2,611,653
Income from operations	433,965	392,179	1,244,158	1,102,569
Other income (expense):				
Interest expense	(92,634)	(89,092)	(257,085)	(250,888)
Loss on extinguishment of debt	(43,679)	—	(43,679)	—
Other income	86,971	2,370	83,897	15,733
Total other expense	(49,342)	(86,722)	(216,867)	(235,155)
Income before income taxes	384,623	305,457	1,027,291	867,414
Income tax expense	(108,901)	(111,556)	(342,387)	(326,108)
Net income	\$ 275,722	\$ 193,901	\$ 684,904	\$ 541,306
Foreign currency translation adjustment, net of tax	3,680	(14)	6,426	420
Total comprehensive income	\$ 279,402	\$ 193,887	\$ 691,330	\$ 541,726
Net income per common share:				
Basic	\$ 0.06	\$ 0.04	\$ 0.15	\$ 0.11
Diluted	\$ 0.06	\$ 0.04	\$ 0.14	\$ 0.11
Weighted average common shares outstanding:				
Basic	4,618,368	4,870,281	4,660,041	4,957,820
Diluted	4,704,571	4,919,829	4,734,841	5,005,133
Dividends declared per common share	\$ 0.010	\$ —	\$ 0.030	\$ —

See accompanying notes to the unaudited consolidated financial statements.

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CONSOLIDATED BALANCE SHEETS

(in thousands, except per share data)	September 30, 2017	December 31, 2016
ASSETS	(unaudited)	
Current assets:		
Cash and cash equivalents	\$ 73,553	\$ 213,939
Receivables, net	225,001	223,029
Inventory, net	22,469	20,363
Related party current assets	12,375	6,170
Prepaid expenses and other current assets	163,164	179,148
Total current assets	496,562	642,649
Property and equipment, net	1,427,614	1,398,693
Intangible assets, net	2,528,709	2,544,801
Goodwill	2,286,559	2,205,107
Related party long-term assets	1,017,350	8,918
Deferred tax assets	777,002	1,084,330
Other long-term assets	118,620	119,097
Total assets	\$ 8,652,416	\$ 8,003,595
LIABILITIES AND STOCKHOLDERS' (DEFICIT) EQUITY		
Current liabilities:		
Accounts payable and accrued expenses	\$ 736,782	\$ 713,034
Accrued interest	92,539	114,633
Current portion of deferred revenue	1,846,285	1,832,609
Current maturities of long-term debt	4,220	5,485
Related party current liabilities	3,018	2,840
Total current liabilities	2,682,844	2,668,601
Deferred revenue	178,180	176,319
Long-term debt	6,728,349	5,842,764
Related party long-term liabilities	6,778	7,955
Deferred tax liabilities	6,418	6,418
Other long-term liabilities	99,948	93,553
Total liabilities	9,702,517	8,795,610
Commitments and contingencies (Note 14)		
Stockholders' (deficit) equity:		
Common stock, par value \$0.001; 9,000,000 shares authorized; 4,604,441 and 4,746,047 shares issued; 4,601,941 and 4,740,947 outstanding at September 30, 2017 and December 31, 2016, respectively	4,604	4,745
Accumulated other comprehensive income (loss), net of tax	6,287	(139)
Additional paid-in capital	2,159,239	3,117,666
Treasury stock, at cost; 2,500 and 5,100 shares of common stock at September 30, 2017 and December 31, 2016, respectively	(13,754)	(22,906)
Accumulated deficit	(3,206,477)	(3,891,381)
Total stockholders' (deficit) equity	(1,050,101)	(792,015)
Total liabilities and stockholders' (deficit) equity	\$ 8,652,416	\$ 8,003,595

See accompanying notes to the unaudited consolidated financial statements.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENT OF STOCKHOLDERS' (DEFICIT) EQUITY
(UNAUDITED)

(in thousands)	Common Stock		Accumulated Other Comprehensive (Loss) Income	Additional Paid-in Capital	Treasury Stock		Accumulated Deficit	Total Stockholders' (Deficit) Equity
	Shares	Amount			Shares	Amount		
Balance at December 31, 2016	4,746,047	\$4,745	\$ (139)	\$3,117,666	5,100	\$(22,906)	\$(3,891,381)	\$(792,015)
Comprehensive income, net of tax	—	—	6,426	—	—	—	684,904	691,330
Issuance of common stock as part of investment in Sirius XM Canada	35,000	35	—	178,815	—	—	—	178,850
Share-based payment expense	—	—	—	82,485	—	—	—	82,485
Exercise of options and vesting of restricted stock units	20,318	21	—	753	—	—	—	774
Minimum withholding taxes on net share settlement of stock-based compensation	—	—	—	(84,560)	—	—	—	(84,560)
Cash dividends paid on common stock	—	—	—	(139,854)	—	—	—	(139,854)
Common stock repurchased	—	—	—	—	194,324	(987,111)	—	(987,111)
Common stock retired	(196,924)	(197)	—	(996,066)	(196,924)	996,263	—	—
Balance at September 30, 2017	4,604,441	\$4,604	\$ 6,287	\$2,159,239	2,500	\$(13,754)	\$(3,206,477)	\$(1,050,101)

See accompanying notes to the unaudited consolidated financial statements.

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CONSOLIDATED STATEMENTS OF CASH FLOWS
(UNAUDITED)

(in thousands)	For the Nine Months Ended September 30,	
	2017	2016
Cash flows from operating activities:		
Net income	\$684,904	\$541,306
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	230,136	202,215
Non-cash interest expense, net of amortization of premium	6,731	6,571
Provision for doubtful accounts	42,329	39,629
Amortization of deferred income related to equity method investment	(2,082)	(2,082)
Loss on extinguishment of debt	43,679	—
Gain on unconsolidated entity investments, net	(7,541)	(9,725)
Dividend received from unconsolidated entity investment	3,606	7,160
Loss on disposal of assets	—	12,912
Share-based payment expense	94,588	77,890
Deferred income taxes	318,190	308,613
Changes in operating assets and liabilities:		
Receivables	(43,665)	(38,266)
Inventory	(396)	(5,735)
Related party, net	(77,179)	(2,373)
Prepaid expenses and other current assets	16,698	(15,985)
Other long-term assets	7,559	26,668
Accounts payable and accrued expenses	1,951	(1,841)
Accrued interest	(22,094)	16,715
Deferred revenue	9,955	52,421
Other long-term liabilities	6,395	11
Net cash provided by operating activities	1,313,764	1,216,104
Cash flows from investing activities:		
Additions to property and equipment	(206,717)	(132,246)
Purchases of restricted and other investments	(7,595)	(4,168)
Acquisition of business, net of cash acquired	(107,736)	—
Investment in convertible preferred stock of related party	(480,000)	—
Loan to related party	(130,794)	—
Payments to acquire additional ownership in related party	(132,205)	—
Net cash used in investing activities	(1,065,047)	(136,414)
Cash flows from financing activities:		
Proceeds from exercise of stock options	774	348
Taxes paid in lieu of shares issued for stock-based compensation	(84,291)	(32,603)
Net repayments related to revolving credit facility	(100,000)	(340,000)
Proceeds from long-term borrowings, net of costs	2,473,506	987,257
Principal payments of long-term borrowings	(1,509,910)	(8,864)
Payment of premiums on redemption of debt	(33,065)	—
Common stock repurchased and retired	(996,263)	(1,225,284)
Dividends paid	(139,854)	—
Net cash used in financing activities	(389,103)	(619,146)
Net (decrease) increase in cash and cash equivalents	(140,386)	460,544

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Cash and cash equivalents at beginning of period	213,939	111,838
Cash and cash equivalents at end of period	\$73,553	\$572,382

See accompanying notes to the unaudited consolidated financial statements.

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CONSOLIDATED STATEMENTS OF CASH FLOWS - Continued
(UNAUDITED)

	For the Nine Months Ended September 30,	
	2017	2016
(in thousands)		
Supplemental Disclosure of Cash and Non-Cash Flow Information		
Cash paid during the period for:		
Interest, net of amounts capitalized	\$270,365	\$222,110
Income taxes paid	\$16,647	\$15,857
Non-cash investing and financing activities:		
Capital lease obligations incurred to acquire assets	\$—	\$6,647
Treasury stock not yet settled	\$13,754	\$12,526
Issuance of common stock as part of investment in Sirius XM Canada	\$178,850	\$—
Accumulated other comprehensive income, net of tax benefit for loan to related party	\$6,426	\$—

See accompanying notes to the unaudited consolidated financial statements.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(UNAUDITED)
(Dollars and shares in thousands, except per share amounts)

(1) Business & Basis of Presentation

This Quarterly Report on Form 10-Q presents information for Sirius XM Holdings Inc. (“Holdings”). The terms “Holdings,” “we,” “us,” “our,” and “our company” as used herein and unless otherwise stated or indicated by context, refer to Sirius XM Holdings Inc. and its subsidiaries, and “Sirius XM” refers to, our wholly-owned subsidiary Sirius XM Radio Inc. Holdings has no operations independent of its wholly-owned subsidiary, Sirius XM.

Business

We transmit music, sports, entertainment, comedy, talk, news, traffic and weather channels, as well as infotainment services, in the United States on a subscription fee basis through our two proprietary satellite radio systems. Subscribers can also receive music and other channels, plus features such as SiriusXM On Demand and MySXM, over our Internet radio service, including through applications for mobile devices, home devices and other consumer electronic equipment. We are also a leader in providing connected vehicle services. Our connected vehicle services are designed to enhance the safety, security and driving experience for vehicle operators while providing marketing and operational benefits to automakers and their dealers.

We have agreements with every major automaker (“OEMs”) to offer satellite radio in their vehicles. We also acquire subscribers through marketing to owners and lessees of previously owned vehicles that include factory-installed satellite radios that are not currently subscribing to our services. Our satellite radios are primarily distributed through automakers, retail stores nationwide, and through our website. Satellite radio services are also offered to customers of certain rental car companies.

Our primary source of revenue is subscription fees, with most of our customers subscribing to annual, semi-annual, quarterly or monthly plans. We offer discounts for prepaid, longer-term subscription plans, as well as a multiple subscription discount. We also derive revenue from activation and other fees, the sale of advertising on select non-music channels, the direct sale of satellite radios and accessories, and other ancillary services, such as our weather, traffic and data services.

In certain cases, a subscription to our radio services is included in the sale or lease price of new or previously owned vehicles. The length of these subscriptions varies but is typically three to twelve months. We receive payments for these subscriptions from certain automakers. We also reimburse various automakers for certain costs associated with satellite radios installed in new vehicles.

During the nine months ended September 30, 2017, we entered into several strategic transactions:

• On April 18, 2017, Sirius XM acquired Automatic Labs Inc. (“Automatic”). Refer to Note 2 for information on this transaction.

• On May 25, 2017, Sirius XM completed a recapitalization of Sirius XM Canada Holdings Inc. (“Sirius XM Canada”). Refer to Note 10 for information on this transaction.

• On September 22, 2017, Sirius XM completed a \$480,000 investment in Pandora Media, Inc. (“Pandora”). Refer to Note 10 for information on this transaction.

As of September 30, 2017, Liberty Media Corporation (“Liberty Media”) beneficially owned, directly and indirectly, approximately 69% of the outstanding shares of our common stock. As a result, we are a “controlled company” for the purposes of the NASDAQ corporate governance requirements.

Basis of Presentation

The accompanying unaudited consolidated financial statements of Holdings and its subsidiaries have been prepared in accordance with U.S. generally accepted accounting principles (“GAAP”), the instructions to Form 10-Q and Article 10 of Regulation S-X of the United States Securities and Exchange Commission (“SEC”) for interim financial reporting. Certain information and footnote disclosures normally included in the financial statements presented in accordance with GAAP have been condensed or omitted pursuant to such rules and regulations.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS - Continued

(UNAUDITED)

(Dollars and shares in thousands, except per share amounts)

All significant intercompany transactions have been eliminated in consolidation. In the opinion of our management, all normal recurring adjustments necessary for a fair presentation of our unaudited consolidated financial statements as of September 30, 2017 and for the three and nine months ended September 30, 2017 and 2016 have been made. Interim results are not necessarily indicative of the results that may be expected for a full year. This Quarterly Report on Form 10-Q should be read together with our Annual Report on Form 10-K for the year ended December 31, 2016, which was filed with the SEC on February 2, 2017.

Public companies are required to disclose certain information about their reportable operating segments. Operating segments are defined as significant components of an enterprise for which separate financial information is available and is evaluated on a regular basis by the chief operating decision makers in deciding how to allocate resources to an individual segment and in assessing performance of the segment. We have determined that we have one reportable segment as our chief operating decision maker, our Chief Executive Officer, assesses performance and allocates resources based on the consolidated results of operations of our business.

We have evaluated events subsequent to the balance sheet date and prior to the filing of this Quarterly Report on Form 10-Q for the three and nine months ended September 30, 2017 and have determined that no events have occurred that would require adjustment to our unaudited consolidated financial statements. For a discussion of subsequent events that do not require adjustment to our unaudited consolidated financial statements refer to Note 16.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and footnotes. Estimates, by their nature, are based on judgment and available information. Actual results could differ materially from those estimates. Significant estimates inherent in the preparation of the accompanying unaudited consolidated financial statements include asset impairment, depreciable lives of our satellites, share-based payment expense, and income taxes.

(2) Acquisition

On April 18, 2017, Sirius XM acquired Automatic, a connected vehicle device and mobile application company, for an aggregate purchase price of \$107,736, net of cash and restricted cash acquired of \$819. Automatic has created and operates a data-driven platform that enables vehicle owners to be safer and drive smarter. The company's proprietary Automatic Pro and Automatic Lite connected car adapters provide, among other things, vehicle diagnostic alerts, emergency crash assistance, fuel monitoring, access to parking information and live vehicle location tracking. During the three months ended September 30, 2017, we recorded an increase of \$3,929 to the Deferred income tax asset, net, related to the acquired assets, which resulted in a decrease to Goodwill. During the three months ended September 30, 2017, the working capital calculation associated with this acquisition was finalized, resulting in an increase of \$248 to the original purchase price and Goodwill. As of September 30, 2017, our Goodwill balance associated with the acquisition was \$81,452. No other assets or liabilities have been adjusted.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS - Continued

(UNAUDITED)

(Dollars and shares in thousands, except per share amounts)

The condensed table below summarizes the fair value of the assets acquired and liabilities assumed:

Acquired Assets:

Intangible assets subject to amortization	\$ 14,700
Goodwill	81,452
Deferred income tax asset, net	14,783
Other assets	4,019
Trademark	800
Total Assets	\$ 115,754

Assumed Liabilities:

Deferred revenue	(5,582)
Other liabilities	(1,617)
Total Liabilities	\$(7,199)
Total Consideration	\$ 108,555

The transaction was accounted for using the acquisition method of accounting. The initial purchase price allocation is subject to change upon receipt of the final valuation analysis for Automatic. The fair value assessed for the majority of the assets acquired and liabilities assumed equaled their carrying value. The excess purchase price over identifiable net assets of \$81,452 has been recorded to Goodwill in our unaudited consolidated balance sheets as of September 30, 2017. A total of \$14,700 has been allocated to identifiable intangible assets subject to amortization and relates to the assessed fair value of software and technology and a total of \$800 has been allocated to the Automatic trademark. We recognized acquisition related costs of \$913 that were expensed in General and administrative expenses in our unaudited consolidated statements of comprehensive income during the nine months ended September 30, 2017. Pro forma financial information related to this acquisition has not been provided as it is not material to our consolidated results of operations.

(3) Summary of Significant Accounting Policies

Fair Value Measurements

For assets and liabilities required to be reported at fair value, GAAP provides a hierarchy that prioritizes inputs to valuation techniques used to measure fair value into three broad levels. Level 1 inputs are based on unadjusted quoted prices in active markets for identical instruments. Level 2 inputs are inputs, other than quoted market prices included within Level 1, that are observable for the asset or liability, either directly or indirectly. Level 3 inputs are unobservable inputs for the asset or liability. As of September 30, 2017 and December 31, 2016, the carrying amounts of cash and cash equivalents, receivables, and accounts payable approximated fair value due to the short-term nature of these instruments.

Our assets and liabilities measured at fair value were as follows:

	September 30, 2017			December 31, 2016		
	Level 1	Level 2	Level 3 Total Fair Value	Level 1	Level 2	Level 3 Total Fair Value
Assets:						
Pandora - investment ^(a)	—	\$552,245	—	—	—	\$552,245
Sirius XM Canada - investment ^(b)	\$178,696	—	—	\$178,696	—	—
Liabilities:						
Debt ^(c)	—	—	\$7,081,843	—	\$6,008,205	\$6,008,205

(a) During the nine months ended September 30, 2017, Sirius XM completed a \$480,000 investment in Pandora. We have elected the fair value option to account for this investment. Refer to Note 10 for information on this

transaction.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS - Continued

(UNAUDITED)

(Dollars and shares in thousands, except per share amounts)

During the nine months ended September 30, 2017, Sirius XM completed a recapitalization of Sirius XM Canada. Following this recapitalization, Sirius XM Canada ceased to be a publicly traded company. Refer to Note 10 for information on this transaction. The amount as of December 31, 2016 approximated fair value. The carrying value (b) of our investment in Sirius XM Canada was \$323,593 and \$8,615 as of September 30, 2017 and December 31, 2016, respectively. Additionally, as part of this transaction we loaned Sirius XM Canada \$130,794. The carrying value of the loan as of September 30, 2017 was \$141,189 and approximated its fair value.

The fair value for non-publicly traded instruments is based upon estimates from a market maker and brokerage (c) firm. Refer to Note 11 for information related to the carrying value of our debt as of September 30, 2017 and December 31, 2016.

Accumulated Other Comprehensive Income (Loss)

Accumulated other comprehensive income of \$6,287 was primarily comprised of the cumulative foreign currency translation adjustments related to the loan to Sirius XM Canada (refer to Note 10 for additional information related to this loan). During the three and nine months ended September 30, 2017, we recorded a foreign currency translation adjustment gain of \$3,680 and \$6,426, respectively, which is recorded net of a tax benefit of \$2,176 and \$3,921, respectively.

Recent Accounting Pronouncements

In January 2017, the Financial Accounting Standards Board (“FASB”) issued ASU 2017-04, Intangibles - Goodwill and Other (Topic 350). This ASU eliminates Step 2 from the goodwill impairment test. Under the new guidance, entities should perform its annual or interim goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit’s fair value. Additionally, this ASU eliminates the requirements for any reporting unit with a zero or negative carrying amount to perform a qualitative assessment and, if it fails that qualitative test, to perform Step 2 of the goodwill impairment test. The amendments in this ASU are effective for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years, and is applied on a prospective basis. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. We are currently evaluating the impact of the adoption of this ASU. We do not believe that the adoption of this guidance will have a material impact on our consolidated financial statements.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842). This ASU requires a company to recognize lease assets and liabilities arising from operating leases in the statement of financial position. This ASU does not significantly change the previous lease guidance for how a lessee should recognize the recognition, measurement, and presentation of expenses and cash flows arising from a lease. Additionally, the criteria for classifying a finance lease versus an operating lease are substantially the same as the previous guidance. The amendments in this ASU are effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years, and early adoption is permitted. This ASU must be adopted using a modified retrospective approach. We plan to adopt this ASU on January 1, 2019. We are in the process of evaluating the impact of adoption of the ASU on our consolidated financial statements. We currently believe the most significant changes will be related to the recognition of right-of-use assets and lease liability on our consolidated balance sheet for operating leases.

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers (Topic 606). This ASU is a comprehensive new revenue recognition model that requires a company to recognize revenue to depict the transfer of goods or services to a customer at an amount that reflects the consideration it expects to receive in exchange for those goods or services. This ASU also requires additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. In August 2015, the FASB issued ASU 2015-14 which amended the effective date of this ASU to fiscal years beginning after December 15, 2017, and early

adoption is permitted only for fiscal years beginning after December 15, 2016. In 2016, the FASB issued additional guidance which clarified principal versus agent considerations, identification of performance obligations and the implementation guidance for licensing. In addition, the FASB issued guidance regarding practical expedients related to disclosures of remaining performance obligations, as well as other amendments to the guidance on transition, collectibility, non-cash consideration and the presentation of sales and other similar taxes. The two permitted transition methods under the new standard are the full retrospective method, in which case the standard would be applied to each prior reporting period presented, or the modified retrospective method, in which case the cumulative effect of applying the standard would be recognized at the date of initial application. We currently plan to adopt this ASU under the modified retrospective method.

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We have completed our evaluation of the impact this ASU will have on our primary revenue streams. Based on our assessment of the impact of implementing this ASU on January 1, 2018 under the modified retrospective method, the most significant impact of the ASU relates to the classification of Revenue share and certain subsidy payments made to automakers associated with a paid promotional subscription. Under the new standard, these payments associated with a paid promotional subscription will be treated as a reduction to the transaction price rather than as an expense as classified under ASC 605. We expect this change to reduce Subscription revenue by less than 3% upon adoption along with a corresponding reduction to Revenue share and royalties and Subscriber acquisition costs, and as a result, we do not expect this change to have an impact to our Net income. Additionally, within our consolidated balance sheets, upon adoption, the amount of revenue share and certain subsidy payments made to automakers associated with a paid promotional subscription will be classified as a liability separate from deferred revenue.

The adoption of this ASU will also have an impact to the timing of recognition of certain other ancillary revenue and expense streams, which we do not expect to have a material impact to our consolidated financial statements.

We expect to complete our implementation process, which includes the necessary changes to our business processes, systems and controls to support recognition and disclosure, prior to the adoption of this ASU on January 1, 2018.

(4) Earnings per Share

Basic net income per common share is calculated by dividing the income available to common stockholders by the weighted average common shares outstanding during each reporting period. Diluted net income per common share adjusts the weighted average number of common shares outstanding for the potential dilution that could occur if common stock equivalents (stock options and restricted stock units) were exercised or converted into common stock, calculated using the treasury stock method. We had no participating securities during the three and nine months ended September 30, 2017 and 2016.

Common stock equivalents of 54,555 and 192,134 for the three months ended September 30, 2017 and 2016, respectively, and 42,481 and 239,205 for the nine months ended September 30, 2017 and 2016, respectively, were excluded from the calculation of diluted net income per common share as the effect would have been anti-dilutive.

	For the Three Months Ended September 30, 2017		For the Nine Months Ended September 30, 2016	
Numerator:				
Net income available to common stockholders for basic and diluted net income per common share	\$275,722	\$193,901	\$684,904	\$541,306
Denominator:				
Weighted average common shares outstanding for basic net income per common share	4,618,368	4,870,281	4,660,041	4,957,820
Weighted average impact of dilutive equity instruments	86,203	49,548	74,800	47,313
Weighted average shares for diluted net income per common share	4,704,571	4,919,829	4,734,841	5,005,133
Net income per common share:				
Basic	\$0.06	\$0.04	\$0.15	\$0.11
Diluted	\$0.06	\$0.04	\$0.14	\$0.11

(5) Receivables, net

Receivables, net, includes customer accounts receivable, receivables from distributors and other receivables.

Customer accounts receivable, net, includes receivables from our subscribers and other customers, including advertising, and is stated at amounts due, net of an allowance for doubtful accounts. Our allowance for doubtful

accounts is based upon our assessment of various factors. We consider historical experience, the age of the receivable balances, current economic conditions and other factors that may affect the counterparty's ability to pay. Bad debt expense is included in Customer service and billing expense in our unaudited consolidated statements of comprehensive income.

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Receivables from distributors primarily include billed and unbilled amounts due from OEMs for services included in the sale or lease price of vehicles, as well as billed amounts due from wholesale distributors of our satellite radios. Other receivables primarily include amounts due from manufacturers of our radios, modules and chipsets where we are entitled to subsidies and royalties based on the number of units produced. We have not established an allowance for doubtful accounts for our receivables from distributors or other receivables as we have historically not experienced any significant collection issues with OEMs or other third parties.

Receivables, net, consists of the following:

	September 30, December 31,	
	2017	2016
Gross customer accounts receivable	\$ 105,875	\$ 105,737
Allowance for doubtful accounts	(9,967)	(8,658)
Customer accounts receivable, net	\$ 95,908	\$ 97,079
Receivables from distributors	102,523	98,498
Other receivables	26,570	27,452
Total receivables, net	\$ 225,001	\$ 223,029

(6) Inventory, net

Inventory consists of finished goods, refurbished goods, chipsets and other raw material components used in manufacturing radios and connected vehicle devices. Inventory is stated at the lower of cost or market. We record an estimated allowance for inventory that is considered slow moving or obsolete or whose carrying value is in excess of net realizable value. The provision related to products purchased for resale in our direct to consumer distribution channel and components held for resale by us is reported as a component of Cost of equipment in our unaudited consolidated statements of comprehensive income. The provision related to inventory consumed in our OEM channel is reported as a component of Subscriber acquisition costs in our unaudited consolidated statements of comprehensive income.

Inventory, net, consists of the following:

	September 30, December 31,	
	2017	2016
Raw materials	\$ 6,649	\$ 10,219
Finished goods	23,962	19,581
Allowance for obsolescence	(8,142)	(9,437)
Total inventory, net	\$ 22,469	\$ 20,363

(7) Goodwill

Goodwill represents the excess of the purchase price over the estimated fair value of the net tangible and identifiable intangible assets acquired in business combinations. Our annual impairment assessment of our single reporting unit is performed as of the fourth quarter of each year, and an assessment is performed at other times if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount. If the carrying amount of goodwill exceeds its fair value, an impairment loss is recognized. As a result of the acquisition of Automatic, we recorded additional goodwill of \$81,452 during the nine months ended September 30, 2017.

As of September 30, 2017, there were no indicators of impairment, and no impairment loss was recorded, for goodwill during the three and nine months ended September 30, 2017 and 2016. As of September 30, 2017, the cumulative balance of goodwill impairments recorded since the July 2008 merger (the "Merger") between our wholly owned subsidiary, Vernon Merger Corporation, and XM Satellite Radio Holdings Inc. ("XM"), was \$4,766,190, which was

recognized during the year ended December 31, 2008.

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(8) Intangible Assets

Our intangible assets include the following:

	Weighted Average Useful Lives	September 30, 2017			December 31, 2016		
		Gross Carrying Value	Accumulated Amortization	Net Carrying Value	Gross Carrying Value	Accumulated Amortization	Net Carrying Value
Indefinite life intangible assets:							
FCC licenses	Indefinite	\$2,083,654	\$—	\$2,083,654	\$2,083,654	\$—	\$2,083,654
Trademark	Indefinite	250,800	—	250,800	250,000	—	250,000
Definite life intangible assets:							
Subscriber relationships	9 years	380,000	(380,000)	—	380,000	(364,893)	15,107
OEM relationships	15 years	220,000	(57,444)	162,556	220,000	(46,444)	173,556
Licensing agreements	12 years	45,289	(33,428)	11,861	45,289	(30,664)	14,625
Software and technology	7 years	43,915	(24,077)	19,838	29,215	(21,356)	7,859
Total intangible assets		\$3,023,658	\$(494,949)	\$2,528,709	\$3,008,158	\$(463,357)	\$2,544,801

Indefinite Life Intangible Assets

We have identified our FCC licenses and the XM trademark as indefinite life intangible assets after considering the expected use of the assets, the regulatory and economic environment within which they are used and the effects of obsolescence on their use. As part of the Automatic acquisition in April 2017, we have also identified \$800 related to its trademark.

We hold FCC licenses to operate our satellite digital audio radio service and provide ancillary services. The following table outlines the years in which each of our satellite licenses expires:

FCC satellite licenses	Expiration year
SIRIUS FM-5	2025
SIRIUS FM-6	2022
XM-3	2021
XM-4	2022
XM-5	2018

Prior to expiration, we are required to apply for a renewal of our FCC licenses. The renewal and extension of our licenses is reasonably certain at minimal cost, which is expensed as incurred. Each of the FCC licenses authorizes us to use the radio spectrum, which is a renewable, reusable resource that does not deplete or exhaust over time.

Our annual impairment assessment of our identifiable indefinite life intangible assets is performed as of the fourth quarter of each year. An assessment is performed at other times if an event occurs or circumstances change that would more likely than not reduce the fair value of the asset below its carrying value. If the carrying value of the intangible assets exceeds its fair value, an impairment loss is recognized. As of September 30, 2017, there were no indicators of impairment, and no impairment loss was recorded, for intangible assets with indefinite lives during the three and nine months ended September 30, 2017 and 2016.

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Definite Life Intangible Assets

As part of the Automatic acquisition in April 2017, \$14,700 was allocated to identifiable intangible assets subject to amortization and relates to the assessed fair value of software and technology. Amortization expense for all definite life intangible assets was \$7,966 and \$12,080 for the three months ended September 30, 2017 and 2016, respectively, and \$31,592 and \$36,778 for the nine months ended September 30, 2017 and 2016, respectively. Expected amortization expense for the remaining period in 2017, each of the fiscal years 2018 through 2021 and for periods thereafter is as follows:

Years ending December 31,	Amount
2017 (remaining)	\$5,863
2018	23,138
2019	22,701
2020	22,121
2021	16,678
Thereafter	103,754
Total definite life intangible assets, net	\$ 194,255

(9)Property and Equipment

Property and equipment, net, consists of the following:

	September 30, December 31,	
	2017	2016
Satellite system	\$ 1,586,794	\$ 1,586,794
Terrestrial repeater network	123,584	127,854
Leasehold improvements	55,090	53,898
Broadcast studio equipment	91,181	84,697
Capitalized software and hardware	579,075	558,101
Satellite telemetry, tracking and control facilities	67,492	77,290
Furniture, fixtures, equipment and other	90,817	90,214
Land	38,411	38,411
Building	61,810	61,597
Construction in progress	280,614	144,954
Total property and equipment	2,974,868	2,823,810
Accumulated depreciation and amortization	(1,547,254)	(1,425,117)
Property and equipment, net	\$ 1,427,614	\$ 1,398,693

Construction in progress consists of the following:

	September 30, December 31,	
	2017	2016
Satellite system	\$ 141,707	\$ 43,977
Terrestrial repeater network	2,215	1,139
Capitalized software	112,561	82,204
Other	24,131	17,634
Construction in progress	\$ 280,614	\$ 144,954

Depreciation and amortization expense on property and equipment was \$71,947 and \$55,800 for the three months ended September 30, 2017 and 2016, respectively, and \$198,544 and \$165,437 for the nine months ended September 30, 2017 and 2016, respectively. We retired property and equipment of \$77,040 and \$583,562 during the nine months ended September 30, 2017 and 2016, respectively. We recognized a loss on disposal of assets of \$12,912,

which was recorded in Satellite and

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transmission expense in our unaudited consolidated statements of comprehensive income, during the nine months ended September 30, 2016, which related to the disposal of certain obsolete spare parts for a future satellite.

We capitalize a portion of the interest on funds borrowed to finance the construction and launch of our satellites and launch vehicles. Capitalized interest is recorded as part of the asset's cost and depreciated over the satellite's useful life. Capitalized interest costs was \$1,324 and \$3,047 for the three and nine months ended September 30, 2017, respectively, and \$107 for the three and nine months ended September 30, 2016, which related to the construction of our SXM-7 and SXM-8 satellites.

Satellites

As of September 30, 2017, we owned a fleet of five satellites. The chart below provides certain information on our satellites as of September 30, 2017:

Satellite Description	Year Delivered	Estimated End of Depreciable Life
SIRIUS FM-5	2009	2024
SIRIUS FM-6	2013	2028
XM-3	2005	2020
XM-4	2006	2021
XM-5	2010	2025

(10) Related Party Transactions

In the normal course of business, we enter into transactions with related parties.

Liberty Media

As of September 30, 2017, Liberty Media beneficially owned, directly and indirectly, approximately 69% of the outstanding shares of our common stock and has two executives and one of its directors on our board of directors. Gregory B. Maffei, the President and Chief Executive Officer of Liberty Media, is the Chairman of our board of directors.

Sirius XM Canada

On May 25, 2017, Sirius XM completed a recapitalization of Sirius XM Canada (the "Transaction"), which is now a privately held corporation.

Following the Transaction, Sirius XM holds a 70% equity interest and 33% voting interest in Sirius XM Canada, with the remainder of the voting power and equity interest held by two of Sirius XM Canada's previous shareholders. The total consideration from Sirius XM to Sirius XM Canada, excluding transaction costs, during the nine months ended September 30, 2017 was \$308,526, which included \$129,676 in cash and we issued 35,000 shares of our common stock with an aggregate value of \$178,850 to the holders of the shares of Sirius XM Canada acquired in the Transaction. Sirius XM received common stock, non-voting common stock and preferred stock of Sirius XM Canada. Sirius XM now owns 590,950 shares of preferred stock of Sirius XM Canada, which has a liquidation preference of one Canadian dollar per share.

In connection with the Transaction, Sirius XM also made a contribution in the form of a loan to Sirius XM Canada in the aggregate amount of \$130,794 on May 25, 2017. The loan is denominated in Canadian dollars and is considered a long-term investment with any unrealized gains or losses reported within Accumulated other comprehensive (loss) income. Such loan has a term of fifteen years, bears interest at a rate of 7.62% per annum and includes customary covenants and events of default, including an event of default relating to Sirius XM Canada's failure to maintain specified leverage ratios. In addition, the terms of the loan require Sirius XM Canada to prepay a portion of the outstanding principal amount of the loan within sixty days of the end of each fiscal year in an amount equal to any

cash on hand in excess of C\$10,000 at the last day of the financial year if all target dividends have been paid in full. In connection with the Transaction, Sirius XM also entered into a Services Agreement and an Advisory Services Agreement with Sirius XM Canada. Each agreement has a thirty year term. Pursuant to the Services Agreement, Sirius XM

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Canada will pay Sirius XM 25% of its gross revenues on a monthly basis through December 31, 2021 and 30% of its gross revenues on a monthly basis thereafter. Pursuant to the Advisory Services Agreement, Sirius XM Canada will pay Sirius XM 5% of its gross revenues on a monthly basis. These agreements supersede and replace the existing agreements between Sirius XM Canada and its predecessors and Sirius XM.

Sirius XM Canada is accounted for as an equity method investment, and its results are not consolidated in our consolidated financial statements. We do not meet the requirements for consolidation as we do not have the ability to direct the most significant activities that impact Sirius XM Canada's economic performance.

We had the following related party balances associated with Sirius XM Canada:

	September 30, December 31,	
	2017	2016
Related party current assets	\$ 12,375	\$ 6,170
Related party long-term assets	\$ 465,105	\$ 8,918
Related party current liabilities	\$ 3,018	\$ 2,840
Related party long-term liabilities	\$ 6,778	\$ 7,955

Under the legacy agreement with Sirius XM Canada, as of December 31, 2016, our related party current assets balance primarily consisted of activation fees and streaming and chipset costs for which we were reimbursed. As of September 30, 2017, our related party current asset balance included amounts due under the new services arrangements and certain amounts related to transactions outside the scope of the new services arrangements. Our related party long-term assets balance as of September 30, 2017 and December 31, 2016 included the carrying value of our investment balance in Sirius XM Canada of \$323,593 and \$8,615, respectively, and, as of September 30, 2017, also included \$141,189 for the current value of the outstanding loan to Sirius XM Canada. Our related party liabilities as of each of September 30, 2017 and December 31, 2016 included \$2,776 for the current portion of deferred revenue and \$5,782 and \$7,867, respectively, for the long-term portion of deferred revenue recorded as of the Merger date related to agreements with legacy XM Canada, now Sirius XM Canada. These costs are being amortized on a straight line basis through 2020.

We recorded the following revenue and other income associated with Sirius XM Canada in our unaudited consolidated statements of comprehensive income:

	For the Three		For the Nine	
	Months Ended		Months Ended	
	September 30,		September 30,	
	2017	2016	2017	2016
Revenue ^{(a)(b)}	\$23,141	\$11,551	\$63,486	\$32,129
Other income				
Share of net earnings ^(b)	\$9,725	\$1,274	\$7,542	\$9,725
Dividends ^(c)	\$—	\$—	\$—	\$3,575
Interest income ^(d)	\$2,718	\$—	\$3,521	\$—

Prior to the Transaction, under our legacy agreements with Sirius XM Canada, we received a percentage-based fee of 10% and 15% for certain types of subscription revenue earned by Sirius XM Canada for the use of Sirius and (a) XM platforms, respectively, and additional fees for premium services and fees for activation fees and reimbursements for other charges. We record revenue from Sirius XM Canada as Other revenue in our unaudited consolidated statements of comprehensive income.

(b) Prior to the Transaction, we recognized our proportionate share of revenue and earnings or losses attributable to Sirius XM Canada as they occurred as Other revenue and as a component of Other income, respectively, in our unaudited consolidated statements of comprehensive income on a one month lag. As a result of the Transaction, there is no longer a one-month lag for recognizing our proportionate share of revenue and earnings or losses

attributable to Sirius XM Canada.

Sirius XM Canada did not pay any dividends to us during the three months ended September 30, 2017 and 2016.

(c) Sirius XM Canada paid gross dividends to us of \$3,796 and \$7,548 during the nine months ended September 30, 2017 and 2016, respectively. These dividends were first recorded as a reduction to our investment balance in Sirius XM Canada to the extent a balance existed and then as Other income for the remaining portion.

(d) This interest income relates to the loan to Sirius XM Canada and is recorded as Other income in our unaudited consolidated statements of comprehensive income.

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Pandora

On September 22, 2017, Sirius XM completed a \$480,000 investment in Pandora. Pursuant to an Investment Agreement with Pandora, Sirius XM purchased 480 shares of Pandora's Series A Convertible Preferred Stock, par value \$0.0001 per share (the "Series A Preferred Stock"), for an aggregate purchase price of \$480,000. The Series A preferred stock represents a stake of approximately 19% of Pandora's currently outstanding common stock, and approximately a 16% interest on an as-converted basis. Pandora operates an internet-based music discovery platform, offering a personalized experience for listeners.

The Series A Preferred Stock is convertible at the option of the holders at any time into shares of common stock of Pandora ("Pandora Common Stock") at an initial conversion price of \$10.50 per share of Pandora Common Stock and an initial conversion rate of 95.2381 shares of Pandora Common Stock per share of Series A Preferred Stock, subject to adjustments for accrued but unpaid dividends and certain customary anti-dilution adjustments. Holders of the Series A Preferred Stock are entitled to a cumulative dividend at the rate of 6.0% per annum, payable quarterly in arrears, if and when declared. During the three and nine months ended September 30, 2017, we recognized \$2,991 and \$3,595, respectively, related to the dividend declared by Pandora, which was recorded to Other income in our unaudited consolidated statements of comprehensive income and Long-term investment within our unaudited consolidated balance sheets. Any conversion of Series A Preferred Stock may be settled by Pandora, at its option, in shares of Pandora Common Stock, cash or any combination thereof. However, unless and until Pandora's stockholders have approved the issuance of greater than 19.99% of the outstanding Pandora Common Stock, the Series A Preferred Stock may not be converted into more than 19.99% of Pandora's outstanding Pandora Common Stock as of the Initial Closing.

The investment includes a mandatory redemption feature on any date from and after September 22, 2022 whereby Sirius XM, at its option, may require Pandora to purchase the Series A Preferred Stock at a price equal to 100% of the liquidation preference plus accrued but unpaid dividends for, at the election of Pandora, cash, shares of Pandora Common Stock or a combination thereof, and as such the investment qualifies as a debt security under ASC 320. As the investment includes a conversion option, we have elected to account for this investment under the fair value option to reduce the accounting asymmetry that would otherwise arise when recognizing the changes in the fair value of available-for-sale investments. Under the fair value option, any gains (losses) associated with the change in fair value will be recognized in Other income within our unaudited consolidated statements of comprehensive income. A \$68,650 unrealized gain was recognized during the three and nine months ended September 30, 2017 as Other income in our unaudited consolidated statements of comprehensive income associated with this investment. The fair value of our investment as of September 30, 2017 was \$552,245 and is recorded as a related party long-term asset within our unaudited consolidated balance sheets. This investment does not meet the requirements for the equity method of accounting as it does not qualify as in-substance common stock.

Pursuant to the Investment Agreement, we have appointed three of our senior executives or members of our Board of Directors to Pandora's Board of Directors, one of whom serves as the Chairman of Pandora's Board of Directors. Our right to designate directors will fall away once we and our affiliates fail to beneficially own shares of Series A Preferred Stock and/or Pandora Common Stock issued upon conversion thereof equal to (on an as-converted basis) at least 50% of the number of shares of Pandora Common Stock issuable upon conversion of the Series A Preferred Stock purchased under the Investment Agreement. Following the earlier to occur of (i) September 22, 2019 and (ii) the date on which we and our affiliates fail to beneficially own shares of Series A Preferred Stock and/or Pandora Common Stock that were issued upon conversion of Series A Preferred Stock equal to (on an as-converted basis) at least 75% of the number of shares of Pandora Common Stock issuable upon conversion of the Series A Preferred Stock purchased under the Investment Agreement, we have the right to designate only two directors.

We are subject to certain standstill restrictions, including, among other things, that we are restricted from acquiring additional securities of Pandora until December 9, 2018.

Except as to matters that may be voted upon separately by holders of the Series A Preferred Stock, we are entitled to vote as a single class with the holders of Pandora Common Stock on an as-converted basis (up to a maximum of 19.99% of the Pandora Common Stock outstanding on June 9, 2017, unless stockholder approval has been received). We are also entitled to a separate class vote with respect to certain amendments to Pandora's organizational documents, issuances by Pandora of securities that are senior to, or equal in priority with, the Series A Preferred Stock and the incurrence of certain indebtedness by Pandora.

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Upon certain change of control events involving Pandora, Pandora is required to repurchase all of the Series A Preferred Stock at a price equal to the greater of (1) an amount in cash equal to 100% of the liquidation preference thereof plus all accrued but unpaid dividends through June 9, 2022 (assuming such shares of Series A Preferred Stock remain outstanding through such date) and (2) the consideration the holders would have received if they had converted their shares of Series A Preferred Stock into Pandora Common Stock immediately prior to the change of control event (disregarding the 19.99% cap).

Beginning on September 22, 2020, if the volume weighted average price per share of Pandora Common Stock exceeds \$18.375, as may be adjusted, for at least 20 trading days in any period of 30 consecutive trading days, Pandora may redeem all of the outstanding Series A Preferred Stock at a price equal to 100% of the liquidation preference thereof plus all accrued but unpaid dividends for, at the election of Pandora, cash, shares of Pandora Common Stock or a combination thereof, provided that, unless stockholder approval has been received, Pandora may not settle the redemption for shares of Pandora Common Stock to the extent the 19.99% cap would be exceeded.

Pursuant to a registration rights agreement entered into with Pandora, we have certain customary registration rights with respect to the Series A Preferred Stock and Pandora Common Stock issued upon conversion thereof.

(11)Debt

Our debt as of September 30, 2017 and December 31, 2016 consisted of the following:

Issuer / Borrower	Issued	Debt	Maturity Date	Interest Payable	Carrying value ^(a) at	
					Principal Amount at September 30, 2017	December 31, 2016
Sirius XM (b)(e)	May 2013	4.25% Senior Notes (the "4.25% Notes")	May 15, 2020	semi-annually on May 15 and November 15	\$ —	\$ 497,069
Sirius XM (b)(f)	August 2013	5.75% Senior Notes (the "5.75% Notes")	August 1, 2021	semi-annually on February 1 and August 1	—	596,386
Sirius XM (b)(h)	July 2017	3.875% Senior Notes (the "3.875% Notes")	August 1, 2022	semi-annually on February 1 and August 1	1,000,000	991,617
Sirius XM (b)	May 2013	4.625% Senior Notes (the "4.625% Notes")	May 15, 2023	semi-annually on May 15 and November 15	500,000	496,510
Sirius XM (b)	May 2014	6.00% Senior Notes (the "6.00% Notes")	July 15, 2024	semi-annually on January 15 and July 15	1,500,000	1,487,632
Sirius XM (b)	March 2015	5.375% Senior Notes (the "5.375% Notes due 2025")	April 15, 2025	semi-annually on April 15 and October 15	1,000,000	991,044
Sirius XM (b)	May 2016	5.375% Senior Notes (the "5.375% Notes due 2026")	July 15, 2026	semi-annually on January 15 and July 15	1,000,000	989,914
	July 2017				1,500,000	1,485,884

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Sirius XM (b)(h)		5.00% Senior Notes (the "5.00% Notes")	August 1, 2027	semi-annually on February 1 and August 1			
Sirius XM (b)(c)(g)	August 2012	5.25% Senior Secured Notes (the "5.25% Notes")	August 15, 2022	semi-annually on February 15 and August 15	—	—	396,232
Sirius XM (d)	December 2012	Senior Secured Revolving Credit Facility (the "Credit Facility")	June 16, 2020	variable fee paid quarterly	1,750,000	290,000	390,000
Sirius XM	Various	Capital leases	Various	n/a	n/a	8,718	13,559
Total Debt						6,741,319	5,855,512
Less: total current maturities						4,220	5,485
Less: total deferred financing costs for Notes						8,750	7,263
Total long-term debt						\$6,728,349	\$5,842,764

(a) The carrying value of the obligations is net of any remaining unamortized original issue discount.

(b) Substantially all of our domestic wholly-owned subsidiaries have guaranteed these notes.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS - Continued

(UNAUDITED)

(Dollars and shares in thousands, except per share amounts)

- (c) The liens that secured the 5.25% Notes were equal and ratable to the liens granted to secure the Credit Facility. Sirius XM's obligations under the Credit Facility are guaranteed by certain of its material domestic subsidiaries and are secured by a lien on substantially all of Sirius XM's assets and the assets of its material domestic subsidiaries. Interest on borrowings is payable on a monthly basis and accrues at a rate based on LIBOR plus an applicable rate. Sirius XM is also required to pay a variable fee on the average daily unused portion of the Credit Facility which is payable on a quarterly basis. The variable rate for the unused portion of the Credit Facility was 0.30% per annum as of September 30, 2017. Sirius XM's outstanding borrowings under the Credit Facility are classified as Long-term debt within our unaudited consolidated balance sheets due to the long-term maturity of this debt.
- (d) On July 27, 2017, Sirius XM redeemed \$500,000 in outstanding principal amount of the 4.25% Notes for an aggregate purchase price, including premium and interest, of \$509,565. We recognized \$8,393 to Loss on extinguishment of debt, consisting primarily of unamortized discount, deferred financing fees and repayment premium, as a result of this redemption.
- (e) On August 4, 2017, Sirius XM redeemed \$600,000 in outstanding principal amount of the 5.75% Notes for an aggregate purchase price, including premium and interest, of \$617,538. We recognized \$20,964 to Loss on extinguishment of debt, consisting primarily of unamortized discount, deferred financing fees and repayment premium, as a result of this redemption.
- (f) On September 1, 2017, Sirius XM redeemed \$400,000 in outstanding principal amount of the 5.25% Notes for an aggregate purchase price, including premium and interest, of \$411,433. We recognized \$14,322 to Loss on extinguishment of debt, consisting primarily of unamortized discount, deferred financing fees and repayment premium, as a result of this redemption. In addition, all security interests and other liens securing the 5.25% Notes were released.
- (g) In July 2017, Sirius XM issued \$1,000,000 aggregate principal amount of the 3.875% Notes and \$1,500,000 aggregate principal amount of the 5.00% Notes with a net original issuance discount and deferred financing costs in the aggregate of \$10,291 and \$16,638, respectively.

Covenants and Restrictions

Under the Credit Facility, Sirius XM, our wholly-owned subsidiary, must comply with a debt maintenance covenant that it cannot exceed a total leverage ratio, calculated as consolidated total debt to consolidated operating cash flow, of 5.0 to 1.0. The Credit Facility generally requires compliance with certain covenants that restrict Sirius XM's ability to, among other things, (i) incur additional indebtedness, (ii) incur liens, (iii) pay dividends or make certain other restricted payments, investments or acquisitions, (iv) enter into certain transactions with affiliates, (v) merge or consolidate with another person, (vi) sell, assign, lease or otherwise dispose of all or substantially all of Sirius XM's assets, and (vii) make voluntary prepayments of certain debt, in each case subject to exceptions.

The indentures governing Sirius XM's notes restrict Sirius XM's non-guarantor subsidiaries' ability to create, assume, incur or guarantee additional indebtedness without such non-guarantor subsidiary guaranteeing each such series of notes on a pari passu basis. The indentures governing the notes also contain covenants that, among other things, limit Sirius XM's ability and the ability of its subsidiaries to create certain liens; enter into sale/leaseback transactions; and merge or consolidate.

Under Sirius XM's debt agreements, the following generally constitute an event of default: (i) a default in the payment of interest; (ii) a default in the payment of principal; (iii) failure to comply with covenants; (iv) failure to pay other indebtedness after final maturity or acceleration of other indebtedness exceeding a specified amount; (v) certain events of bankruptcy; (vi) a judgment for payment of money exceeding a specified aggregate amount; and (vii) voidance of subsidiary guarantees, subject to grace periods where applicable. If an event of default occurs and is continuing, our debt could become immediately due and payable.

At September 30, 2017 and December 31, 2016, we were in compliance with our debt covenants.

(12) Stockholders' Equity

Common Stock, par value \$0.001 per share

We are authorized to issue up to 9,000,000 shares of common stock. There were 4,604,441 and 4,746,047 shares of common stock issued and 4,601,941 and 4,740,947 shares outstanding on September 30, 2017 and December 31, 2016, respectively. As part of the recapitalization of Sirius XM Canada, we issued 35,000 shares of our common stock to the holders of the shares of Sirius XM Canada.

As of September 30, 2017, there were 321,868 shares of common stock reserved for issuance in connection with outstanding stock based awards and common stock to be granted to members of our board of directors, employees and third parties.

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(Dollars and shares in thousands, except per share amounts)

Quarterly Dividends, \$0.010 per share

On July 11, 2017, our board of directors declared a dividend on our common stock in the amount of \$0.010 per share of common stock to stockholders of record as of the close of business on August 8, 2017. The dividend was paid in cash on August 31, 2017 in the aggregate amount of \$46,216. We also paid a dividend in cash on February 28, 2017 and April 25, 2017 in the aggregate amount of \$47,137 and \$46,501, respectively. For a discussion of subsequent events refer to Note 16.

Stock Repurchase Program

As of September 30, 2017, our board of directors had approved for repurchase an aggregate of \$10,000,000 of our common stock. Our board of directors did not establish an end date for this stock repurchase program. Shares of common stock may be purchased from time to time on the open market, pursuant to pre-set trading plans meeting the requirements of Rule 10b5-1 under the Exchange Act, in privately negotiated transactions, including transactions with Liberty Media and its affiliates, or otherwise. As of September 30, 2017, our cumulative repurchases since December 2012 under our stock repurchase program totaled 2,397,932 shares for \$8,960,948, and \$1,039,052 remained available under our stock repurchase program.

The following table summarizes our total share repurchase activity for the nine months ended:

	September 30, 2017		September 30, 2016	
Share Repurchase Type	Shares	Amount	Shares	Amount
Open Market ^(a)	194,324	\$987,111	315,051	\$1,214,083

As of September 30, 2017, \$13,754 of common stock repurchases had not settled, nor been retired, and were (a) recorded as Treasury stock within our unaudited consolidated balance sheets and unaudited consolidated statements of stockholders' (deficit) equity. For a discussion of subsequent events refer to Note 16.

Preferred Stock, par value \$0.001 per share

We are authorized to issue up to 50,000 shares of undesignated preferred stock with a liquidation preference of \$0.001 per share. There were no shares of preferred stock issued or outstanding as of September 30, 2017 and December 31, 2016.

(13) Benefit Plans

We recognized share-based payment expense of \$34,891 and \$30,020 for the three months ended September 30, 2017 and 2016, respectively, and \$94,588 and \$77,890 for the nine months ended September 30, 2017 and 2016, respectively.

2015 Long-Term Stock Incentive Plan

In May 2015, our stockholders approved the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (the "2015 Plan"). Employees, consultants and members of our board of directors are eligible to receive awards under the 2015 Plan. The 2015 Plan provides for the grant of stock options, restricted stock awards, restricted stock units and other stock-based awards that the compensation committee of our board of directors deem appropriate. Stock-based awards granted under the 2015 Plan are generally subject to a graded vesting requirement, which is generally three to four years from the grant date. Stock options generally expire ten years from the date of grant. Restricted stock units include performance-based restricted stock units ("PRSUs"), the vesting of which are subject to the achievement of performance goals and the employee's continued employment and generally cliff vest on the three-year anniversary of the grant date. Each restricted stock unit entitles the holder to receive one share of common stock upon vesting. As of September 30, 2017, 167,055 shares of common stock were available for future grants under the 2015 Plan.

Other Plans

We maintain three other share-based benefit plans — the Sirius XM Radio Inc. 2009 Long-Term Stock Incentive Plan, the XM 2007 Stock Incentive Plan and the Amended and Restated Sirius Satellite Radio 2003 Long-Term Stock

Incentive Plan. Excluding dividend equivalent units granted as a result of a declared dividend, no further awards may be made under these plans.

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SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES

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(Dollars and shares in thousands, except per share amounts)

The following table summarizes the weighted-average assumptions used to compute the fair value of options granted to employees and members of our board of directors:

	For the Three Months Ended September 30, 2017		For the Nine Months Ended September 30, 2016	
Risk-free interest rate	1.8%	1.1%	1.8%	1.1%
Expected life of options — year	4.66	4.48	4.60	4.27
Expected stock price volatility	24%	22%	24%	22%
Expected dividend yield	0.7%	0.0%	0.7%	0.0%

There were no options granted to third parties during the three and nine months ended September 30, 2017 and 2016. Since we did not historically pay dividends on our common stock prior to the fourth quarter of 2016, the expected dividend yield used in the Black-Scholes option pricing model was zero for the three and nine months ended September 30, 2016.

The following table summarizes stock option activity under our share-based plans for the nine months ended September 30, 2017:

	Options	Weighted- Average Exercise Price Per Share	Weighted- Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value
Outstanding as of December 31, 2016	332,648	\$ 3.50		
Granted	27,218	\$ 5.49		
Exercised	(65,413)	\$ 3.20		
Forfeited, cancelled or expired	(4,551)	\$ 3.90		
Outstanding as of September 30, 2017	289,902	\$ 3.75	6.87	\$ 513,625
Exercisable as of September 30, 2017	128,288	\$ 3.16	5.67	\$ 302,230

The weighted average grant date fair value per share of options granted during the nine months ended September 30, 2017 was \$1.17. The total intrinsic value of stock options exercised during the nine months ended September 30, 2017 and 2016 was \$148,133 and \$59,531, respectively. During the nine months ended September 30, 2017, the number of net settled shares which were issued as a result of stock option exercises was 15,092.

We recognized share-based payment expense associated with stock options of \$21,454 and \$21,484 for the three months ended September 30, 2017 and 2016, respectively, and \$61,091 and \$59,510 for the nine months ended September 30, 2017 and 2016, respectively.

The following table summarizes the restricted stock unit, including PRSUs, activity under our share-based plans for the nine months ended September 30, 2017:

Shares	Grant Date Fair Value Per Share
--------	--

Nonvested as of December 31, 2016	29,893	\$ 4.03
Granted	11,618	\$ 5.38
Vested	(8,561)	\$ 3.91
Forfeited	(984)	\$ 4.23
Nonvested as of September 30, 2017	31,966	\$ 4.55

The total intrinsic value of restricted stock units vesting during the nine months ended September 30, 2017 and 2016 was \$46,920 and \$16,890, respectively. During the nine months ended September 30, 2017 the number of net settled shares which were issued as a result of restricted stock units vesting totaled 5,226. During the nine months ended September 30, 2017, we

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granted 929 PRSUs to certain employees. We believe it is probable that the performance target applicable to these and previously granted PRSUs will be achieved.

In connection with the cash dividends paid during the nine months ended September 30, 2017, we granted 162 restricted stock units, including PRSUs, in accordance with the terms of existing award agreements. This grant did not result in any additional incremental share-based payment expense being recognized during the nine months ended September 30, 2017.

We recognized share-based payment expense associated with restricted stock units, including PRSUs, of \$13,437 and \$8,536 for the three months ended September 30, 2017 and 2016, respectively, and \$33,497 and \$18,380 for the nine months ended September 30, 2017 and 2016, respectively.

Total unrecognized compensation costs related to unvested share-based payment awards for stock options and restricted stock units granted to employees, members of our board of directors and third parties at September 30, 2017 and December 31, 2016 were \$281,311 and \$266,045, respectively. The total unrecognized compensation costs at September 30, 2017 are expected to be recognized over a weighted-average period of 2.5 years.

401(k) Savings Plan

Sirius XM sponsors the Sirius XM Radio Inc. 401(k) Savings Plan (the "Sirius XM Plan") for eligible employees. The Sirius XM Plan allows eligible employees to voluntarily contribute from 1% to 50% of their pre-tax eligible earnings, subject to certain defined limits. We match 50% of an employee's voluntary contributions per pay period on the first 6% of an employee's pre-tax salary up to a maximum of 3% of eligible compensation. We may also make additional discretionary matching, true-up matching and non-elective contributions to the Sirius XM Plan. Employer matching contributions under the Sirius XM Plan vest at a rate of 33.33% for each year of employment and are fully vested after three years of employment for all current and future contributions. Our cash employer matching contributions are not used to purchase shares of our common stock on the open market, unless the employee elects our common stock as their investment option for this contribution. We recognized \$1,775 and \$1,640 in expense during three months ended September 30, 2017 and 2016, respectively, and \$5,292 and \$4,857 in expense during nine months ended September 30, 2017 and 2016, respectively, in connection with the Sirius XM Plan.

Sirius XM Holdings Inc. Deferred Compensation Plan

In 2015, we adopted the Sirius XM Holdings Inc. Deferred Compensation Plan (the "DCP"). The DCP allows members of our board of directors and certain eligible employees to defer all or a portion of their base salary, cash incentive compensation and/or board of directors' cash compensation, as applicable. Pursuant to the terms of the DCP, we may elect to make additional contributions beyond amounts deferred by participants, but we are under no obligation to do so. We have established a grantor (or "rabbi") trust to facilitate the payment of our obligations under the DCP. Contributions to the DCP, net of withdrawals, for the three months ended September 30, 2017 and 2016, were \$240 and \$215, respectively, and for the nine months ended September 30, 2017 and 2016, were \$7,595 and \$4,169, respectively. As of September 30, 2017, the fair value of the investments held in the trust was \$13,890, which is included in Other long-term assets in our unaudited consolidated balance sheets and is classified as trading securities. Trading gains and losses associated with these investments are recorded in Other income within our unaudited consolidated statements of comprehensive income. The associated liability is recorded within Other long-term liabilities in our unaudited consolidated balance sheets, and any increase or decrease in the liability is recorded in General and administration expense within our unaudited consolidated statements of comprehensive income. For the three and nine months ended September 30, 2017 and 2016, we recorded an immaterial amount of unrealized gains on investments held in the trust.

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(14) Commitments and Contingencies

The following table summarizes our expected contractual cash commitments as of September 30, 2017:

	2017	2018	2019	2020	2021	Thereafter	Total
Debt obligations	\$647	\$4,477	\$3,169	\$290,425	\$—	\$6,500,000	\$6,798,718
Cash interest payments	42,020	356,691	348,377	342,211	334,375	1,250,313	2,673,987
Satellite and transmission	23,358	133,938	86,810	43,699	4,296	6,667	298,768
Programming and content	74,742	323,499	298,920	252,648	173,689	214,037	1,337,535
Marketing and distribution	7,166	17,436	12,813	8,620	7,801	1,608	55,444
Satellite incentive payments	3,415	14,302	10,652	10,197	8,574	70,324	117,464
Operating lease obligations	7,604	43,266	39,639	37,391	31,560	153,449	312,909
Other	24,362	30,429	16,421	2,672	527	30	74,441
Total ⁽¹⁾	\$183,314	\$924,038	\$816,801	\$987,863	\$560,822	\$8,196,428	\$11,669,266

(1) The table does not include our reserve for uncertain tax positions, which at September 30, 2017 totaled \$9,730, as the specific timing of any cash payments cannot be projected with reasonable certainty.

Debt obligations. Debt obligations include principal payments on outstanding debt and capital lease obligations.

Cash interest payments. Cash interest payments include interest due on outstanding debt and capital lease payments through maturity.

Satellite and transmission. During the year ended December 31, 2016, we entered into an agreement with Space Systems/Loral to design and build two satellites, SXM-7 and SXM-8, for our service. We also have entered into agreements with third parties to operate and maintain satellite telemetry, tracking and control facilities and certain components of our terrestrial repeater networks.

Programming and content. We have entered into various programming agreements. Under the terms of these agreements, our obligations include fixed payments, advertising commitments and revenue sharing arrangements. Our future revenue sharing costs are dependent upon many factors and are difficult to estimate; therefore, they are not included in our minimum contractual cash commitments.

Marketing and distribution. We have entered into various marketing, sponsorship and distribution agreements to promote our brand and are obligated to make payments to sponsors, retailers, automakers and radio manufacturers under these agreements. Certain programming and content agreements also require us to purchase advertising on properties owned or controlled by the licensors. We also reimburse automakers for certain costs associated with the incorporation of satellite radios into new vehicles they manufacture.

Satellite incentive payments. Boeing Satellite Systems International, Inc., the manufacturer of certain of our in-orbit satellites, may be entitled to future in-orbit performance payments with respect to XM-3 and XM-4 meeting their fifteen-year design life, which we expect to occur. Boeing may also be entitled to up to \$10,000 of additional incentive payments if our XM-4 satellite continues to operate above baseline specifications during the five years beyond the satellite's fifteen-year design life.

Space Systems/Loral, the manufacturer of certain of our in-orbit satellites, may be entitled to future in-orbit performance payments with respect to XM-5, SIRIUS FM-5 and SIRIUS FM-6 meeting their fifteen-year design life, which we expect to occur.

Operating lease obligations. We have entered into both cancelable and non-cancelable operating leases for office space, equipment and terrestrial repeaters. These leases provide for minimum lease payments, additional operating expense charges, leasehold improvements and rent escalations that have initial terms ranging from one to fifteen years, and certain leases have options to renew. The effect of the rent holidays and rent concessions are recognized on a straight-line basis over the lease term, including reasonably assured renewal periods.

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Other. We have entered into various agreements with third parties for general operating purposes. In addition to the minimum contractual cash commitments described above, we have entered into agreements with other variable cost arrangements. These future costs are dependent upon many factors and are difficult to anticipate; however, these costs may be substantial. We may enter into additional programming, distribution, marketing and other agreements that contain similar variable cost provisions. The cost of our common stock acquired in our capital return program but not paid for as of September 30, 2017 was also included in this category.

We do not have any other significant off-balance sheet financing arrangements that are reasonably likely to have a material effect on our financial condition, results of operations, liquidity, capital expenditures or capital resources.

Legal Proceedings

In the ordinary course of business, we are a defendant or party to various claims and lawsuits, including those discussed below.

We record a liability when we believe that it is both probable that a liability will be incurred, and the amount of loss can be reasonably estimated. We evaluate developments in legal matters that could affect the amount of liability that has been previously accrued and make adjustments as appropriate. Significant judgment is required to determine both probability and the estimated amount of a loss or potential loss. We may be unable to estimate the reasonably possible loss or range of loss for a particular legal contingency for various reasons, including, among others, because: (i) the damages sought are indeterminate; (ii) the proceedings are in the relative early stages; (iii) there is uncertainty as to the outcome of pending proceedings (including motions and appeals); (iv) there is uncertainty as to the likelihood of settlement and the outcome of any negotiations with respect thereto; (v) there remain significant factual issues to be determined or resolved; (vi) the relevant law is unsettled; or (vii) the proceedings involve novel or untested legal theories. In such instances, there may be considerable uncertainty regarding the ultimate resolution of such matters, including a possible eventual loss, if any.

SoundExchange Royalty Claims. In August 2013, SoundExchange, Inc. filed a complaint in the United States District Court for the District of Columbia alleging that we underpaid royalties for statutory licenses in violation of the regulations established by the Copyright Royalty Board for the 2007-2012 period. SoundExchange principally alleges that we improperly reduced our gross revenues applicable to royalties by improperly deducting revenue attributable to pre-1972 recordings and Premier package revenue that is not “separately charged” as required by the regulations. We believe that we properly applied the gross revenue exclusions contained in the regulations established by the Copyright Royalty Board. SoundExchange is seeking compensatory damages of not less than \$50,000 and up to \$100,000 or more, payment of late fees and interest, and attorneys’ fees and costs.

In August 2014, the United States District Court for the District of Columbia, in response to our motion to dismiss the complaint, stayed the case on the grounds that it properly should be pursued in the first instance before the Copyright Royalty Board rather than the District Court. In its opinion, the District Court concluded that the gross revenue exclusions in the regulations established by the Copyright Royalty Board for the 2007-2012 period were ambiguous and did not, on their face, make clear whether our royalty calculation approaches were permissible under the regulations. In December 2014, SoundExchange filed a petition with the Copyright Royalty Board requesting an order interpreting the applicable regulations.

On September 11, 2017, the Copyright Royalty Board issued a ruling concluding that we correctly interpreted the revenue exclusions applicable to pre-1972 recordings. Given the limitations on its jurisdiction, the Copyright Royalty Board deferred to further proceedings in the District Court the question of whether we properly applied those pre-1972 revenue exclusions. The Judges also concluded that we improperly claimed a revenue exclusion based on our Premier package upcharge, because, in the Judges’ view, the portion of the package that contained programming that did not

include sound recordings was not offered for a “separate charge.”

Rulings by the Copyright Royalty Board, including its September 11, 2017 ruling, are subject to limited legal review by the Register of Copyrights. Following a review by the Register of Copyrights and publication in the Federal Register, we expect that the ultimate ruling by the Copyright Royalty Board in this matter will be transmitted back to the District Court for further proceedings, such as adjudication claims relating to damages and defenses. We believe we have substantial defenses to SoundExchange claims that can be asserted, including in proceedings in the District Court, and will continue to defend this action vigorously.

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This matter is titled SoundExchange, Inc. v. Sirius XM Radio, Inc., No.13-cv-1290-RJL (D.D.C.), and Determination of Rates and Terms for Preexisting Subscription Services and Satellite Digital Audio Radio Services, United States Copyright Royalty Board, No. 2006-1 CRB DSTRA. Information concerning the action is publicly available in filings under the docket numbers. This matter is not related to certain claims under state law brought by owners of pre-1972 recording copyrights arising out of our use and performance of those recordings.

At December 31, 2016, we concluded that a loss, in excess of our recorded liabilities, was reasonably possible in connection with the SoundExchange royalty claims. At September 30, 2017, the estimable portion of such possible loss ranged from \$0 to \$85,000, plus any related interest or late fees. Based on our defenses, such a loss is not considered probable at this time and no liability for such additional loss has been recorded. The matters underlying this estimated range and the estimable portion of reasonably possible losses may change from time to time and the actual possible loss may vary from this estimate.

Other Matters. In the ordinary course of business, we are a defendant in various other lawsuits and arbitration proceedings, including derivative actions; actions filed by subscribers, both on behalf of themselves and on a class action basis; former employees; parties to contracts or leases; and owners of patents, trademarks, copyrights or other intellectual property. None of these other matters, in our opinion, is likely to have a material adverse effect on our business, financial condition or results of operations.

(15) Income Taxes

We file a consolidated federal income tax return for all of our wholly-owned subsidiaries, including Sirius XM. For the three months ended September 30, 2017 and 2016, income tax expense was \$108,901 and \$111,556, respectively, and \$342,387 and \$326,108 for the nine months ended September 30, 2017 and 2016, respectively.

Our effective tax rate for the three months ended September 30, 2017 and 2016 was 28.3% and 36.5%, respectively. Our effective tax rate for the nine months ended September 30, 2017 and 2016 was 33.3% and 37.6%, respectively. The effective tax rate for the three and nine months ended September 30, 2017 was impacted by the recognition of excess tax benefits related to stock compensation and a benefit related to a federal tax credit under the Protecting Americans from Tax Hikes Act of 2015 for research and development activities. The effective tax rate for the three and nine months ended September 30, 2016 was impacted by the recognition of tax shortfalls related to stock compensation. Our adjusted effective tax rate for the year ending December 31, 2017 is anticipated to be approximately 34%.

As of September 30, 2017 and December 31, 2016, we had a valuation allowance related to deferred tax assets of \$44,828 and \$47,682, respectively, that were not likely to be realized due to certain net operating loss limitations and acquired net operating losses that were not more likely than not going to be utilized.

(16) Subsequent Events

Capital Return Program

For the period from October 1, 2017 to October 23, 2017, we repurchased 6,452 shares of our common stock on the open market for an aggregate purchase price of \$36,388, including fees and commissions.

On October 3, 2017, our board of directors declared a quarterly dividend on our common stock in the amount of \$0.011 per share of common stock payable on November 30, 2017 to stockholders of record as of the close of business on November 9, 2017.

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ITEM MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF
2. OPERATIONS

All amounts referenced in this Item 2 are in thousands, except per subscriber and per installation amounts, unless otherwise stated.

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited consolidated financial statements and related notes included elsewhere in this Quarterly Report on Form 10-Q and with our Annual Report on Form 10-K for the year ended December 31, 2016. This Quarterly Report on Form 10-Q presents information for Sirius XM Holdings Inc. ("Holdings"). The terms "Holdings," "we," "us," "our," and "our company" as used herein and unless otherwise stated or indicated by context, refer to Sirius XM Holdings Inc. and its subsidiaries, and "Sirius XM" refers to, our wholly-owned subsidiary Sirius XM Radio Inc. Holdings has no operations independent of its wholly-owned subsidiary, Sirius XM.

Special Note Regarding Forward-Looking Statements

The following cautionary statements identify important factors that could cause our actual results to differ materially from those projected in forward-looking statements made in this Quarterly Report on Form 10-Q and in other reports and documents published by us from time to time. Any statements about our beliefs, plans, objectives, expectations, assumptions, future events or performance are not historical facts and may be forward-looking. These statements are often, but not always, made through the use of words or phrases such as "will likely result," "are expected to," "will continue," "is anticipated," "estimated," "intend," "plan," "projection" and "outlook." Any forward-looking statements are qualified in their entirety by reference to the factors discussed throughout this Quarterly Report on Form 10-Q and in other reports and documents published by us from time to time, particularly the risk factors described under "Risk Factors" in Part I, Item 1A, of our Annual Report on Form 10-K for the year ended December 31, 2016 and "Management's Discussion and Analysis of Financial Condition and Results of Operations" herein and in Part II, Item 7, of our Annual Report on Form 10-K for the year ended December 31, 2016.

Among the significant factors that could cause our actual results to differ materially from those expressed in the forward-looking statements are:

- we face substantial competition and that competition is likely to increase over time;
- our ability to attract and retain subscribers in the future is uncertain;
- our service may experience harmful interference from new wireless operations;
- consumer protection laws and their enforcement could damage our business;
- the unfavorable outcome of pending or future litigation could have a material adverse impact on our operations and financial condition;
- the market for music rights is changing and is subject to significant uncertainties;
- our business depends in large part upon the auto industry;
- general economic conditions can affect our business;
- if we fail to protect the security of personal information about our customers, we could be subject to costly government enforcement actions and private litigation and our reputation could suffer;
- existing or future government laws and regulations could harm our business;
- failure of our satellites would significantly damage our business;
- interruption or failure of our information technology and communications systems could negatively impact our results and our brand;
- we may not realize the benefits of acquisitions or other strategic investments and initiatives;
- rapid technological and industry changes could adversely impact our services;
- failure of third parties to perform could adversely affect our business;
- failure to comply with FCC requirements could damage our business;

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we may from time to time modify our business plan, and these changes could adversely affect us and our financial condition;

we have a significant amount of indebtedness, and our debt contains certain covenants that restrict our operations;

our studios, terrestrial repeater networks, satellite uplink facilities or other ground facilities could be damaged by natural catastrophes or terrorist activities;

our principal stockholder has significant influence, including over actions requiring stockholder approval, and its interests may differ from the interests of other holders of our common stock;

we are a “controlled company” within the meaning of the NASDAQ listing rules and, as a result, qualify for, and rely on, exemptions from certain corporate governance requirements;

our business may be impaired by third-party intellectual property rights; and

while we currently pay a quarterly cash dividend to holders of our common stock, we may change our dividend policy at any time.

Because the risk factors referred to above could cause actual results or outcomes to differ materially from those expressed in any forward-looking statements made by us or on our behalf, you should not place undue reliance on any of these forward-looking statements. In addition, any forward-looking statement speaks only as of the date on which it is made, and we undertake no obligation to update any forward-looking statement or statements to reflect events or circumstances after the date on which the statement is made, to reflect the occurrence of unanticipated events or otherwise, except as required by law. New factors emerge from time to time, and it is not possible for us to predict which will arise or to assess with any precision the impact of each factor on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements.

Executive Summary

We transmit music, sports, entertainment, comedy, talk, news, traffic and weather channels, as well as infotainment services, in the United States on a subscription fee basis through our two proprietary satellite radio systems. Subscribers can also receive music and other channels, plus features such as SiriusXM On Demand and MySXM, over our Internet radio service, including through applications for mobile devices, home devices and other consumer electronic equipment. We are also a leader in providing connected vehicle services. Our connected vehicle services are designed to enhance the safety, security and driving experience for vehicle operators while providing marketing and operational benefits to automakers and their dealers.

We have agreements with every major automaker (“OEMs”) to offer satellite radio in their vehicles. We also acquire subscribers through marketing to owners and lessees of previously owned vehicles that include factory-installed satellite radios that are not currently subscribing to our services. Our satellite radios are primarily distributed through automakers; retail stores nationwide; and through our website. Satellite radio services are also offered to customers of certain rental car companies.

As of September 30, 2017, we had approximately 32.2 million subscribers of which approximately 27.0 million were self-pay subscribers and approximately 5.2 million were paid promotional subscribers. Our subscriber totals include subscribers under our regular pricing plans; discounted pricing plans; subscribers that have prepaid, including payments either made or due from automakers for subscriptions included in the sale or lease price of a vehicle; subscribers to our Internet services who do not also have satellite radio subscriptions; and certain subscribers to our weather, traffic, and data services who do not also have satellite radio subscriptions. Subscribers and subscription related revenues and expenses associated with our connected vehicle services and the Sirius XM Canada service are not included in our subscriber count or subscriber-based operating metrics.

Our primary source of revenue is subscription fees, with most of our customers subscribing to annual, semi-annual, quarterly or monthly plans. We offer discounts for prepaid, longer term subscription plans, as well as a multiple subscription discount. We also derive revenue from activation and other fees, the sale of advertising on select non-music channels, the direct sale of satellite radios and accessories, and other ancillary services, such as our weather, traffic and data services.

In certain cases, a subscription to our radio services is included in the sale or lease price of new vehicles or previously owned vehicles. The length of these subscriptions varies but is typically three to twelve months. We receive payments for

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these subscriptions from certain automakers. We also reimburse various automakers for certain costs associated with satellite radios installed in new vehicles.

As of September 30, 2017, Liberty Media beneficially owned, directly and indirectly, approximately 69% of the outstanding shares of our common stock. As a result, we are a “controlled company” for the purposes of the NASDAQ corporate governance requirements.

Recent Transactions

During the nine months ended September 30, 2017, we entered into several strategic transactions.

Acquisition of Automatic Labs. On April 18, 2017, Sirius XM acquired Automatic Labs Inc. (“Automatic”), a connected vehicle device and mobile application company, for an aggregate purchase price of \$107,736, net of cash and restricted cash acquired.

Recapitalization of Sirius XM Canada. On May 25, 2017, Sirius XM completed a recapitalization (the “Transaction”) of Sirius XM Canada Holdings Inc. (“Sirius XM Canada”), which is now a privately held corporation.

Following the Transaction, Sirius XM holds a 70% equity interest and 33% voting interest in Sirius XM Canada, with the remainder of the voting power and equity interest held by two of Sirius XM Canada’s previous shareholders. The total consideration from Sirius XM to Sirius XM Canada, excluding transaction costs, during the nine months ended September 30, 2017 was \$308,526, which included \$129,676 in cash and we issued 35,000 shares of our common stock with an aggregate value of \$178,850 to the holders of the shares of Sirius XM Canada acquired in the Transaction. Sirius XM received common stock, non-voting common stock and preferred stock of Sirius XM Canada. Sirius XM now owns 590,950 shares of preferred stock of Sirius XM Canada, which has a liquidation preference of one Canadian dollar per share. Future dividends on the common stock of Sirius XM Canada are expected to be declared on a 6.0% annual basis.

In connection with the Transaction, Sirius XM also made a contribution in the form of a loan to Sirius XM Canada in the aggregate amount of \$130,794 on May 25, 2017. The loan is denominated in Canadian dollars and is considered a long-term investment with any unrealized gains or losses reported within Accumulated other comprehensive (loss) income. Such loan has a term of fifteen years, bears interest at a rate of 7.62% per annum and includes customary covenants and events of default, including an event of default relating to Sirius XM Canada’s failure to maintain specified leverage ratios. In addition, the terms of the loan require Sirius XM Canada to prepay a portion of the outstanding principal amount of the loan within sixty days of the end of each fiscal year in an amount equal to any cash on hand in excess of C\$10,000 at the last day of the financial year if all target dividends have been paid in full.

In connection with the Transaction, Sirius XM also entered into a Services Agreement and an Advisory Services Agreement with Sirius XM Canada. Each agreement has a thirty year term. Pursuant to the Services Agreement, Sirius XM Canada will pay Sirius XM 25% of its gross revenues on a monthly basis through December 31, 2021 and 30% of its gross revenues on a monthly basis thereafter. Pursuant to the Advisory Services Agreement, Sirius XM Canada will pay Sirius XM 5% of its gross revenues on a monthly basis. These agreements supersede and replace the existing agreements between Sirius XM Canada and its predecessors and Sirius XM.

Sirius XM Canada is accounted for as an equity method investment, and its results are not consolidated in our consolidated financial statements. We do not meet the requirements for consolidation as we do not have the ability to direct the most significant activities that impact Sirius XM Canada's economic performance.

Investment in Pandora Media, Inc. On September 22, 2017, Sirius XM completed a \$480,000 investment in Pandora. Pursuant to an Investment Agreement with Pandora Media, Inc. (“Pandora”), Sirius XM purchased 480 shares of

Pandora's Series A Convertible Preferred Stock, par value \$0.0001 per share (the "Series A Preferred Stock"), for an aggregate purchase price of \$480,000. The Series A preferred stock represents a stake of approximately 19% of Pandora's currently outstanding common stock, and approximately a 16% interest on an as-converted basis. Pandora operates an internet-based music discovery platform, offering a personalized experience for listeners.

The Series A Preferred Stock is convertible at the option of the holders at any time into shares of common stock of Pandora ("Pandora Common Stock") at an initial conversion price of \$10.50 per share of Pandora Common Stock and an initial conversion rate of 95.2381 shares of Pandora Common Stock per share of Series A Preferred Stock, subject to adjustments for accrued but unpaid dividends and certain customary anti-dilution adjustments. Holders of the Series A Preferred Stock are entitled to a cumulative dividend at the rate of 6.0% per annum, payable quarterly in arrears, if and when declared. During the

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three and nine months ended September 30, 2017, we recognized \$2,991 and \$3,595, respectively, related to the dividend declared by Pandora, which was recorded to Other income in our unaudited consolidated statements of comprehensive income and Long-term investment within our unaudited consolidated balance sheets. Any conversion of Series A Preferred Stock may be settled by Pandora, at its option, in shares of Pandora Common Stock, cash or any combination thereof. However, unless and until Pandora's stockholders have approved the issuance of greater than 19.99% of the outstanding Pandora Common Stock, the Series A Preferred Stock may not be converted into more than 19.99% of Pandora's outstanding Pandora Common Stock as of the Initial Closing.

The investment includes a mandatory redemption feature on any date from and after September 22, 2022 whereby Sirius XM, at its option, may require Pandora to purchase the Series A Preferred Stock at a price equal to 100% of the liquidation preference plus accrued but unpaid dividends for, at the election of Pandora, cash, shares of Pandora Common Stock or a combination thereof, and as such the investment qualifies as a debt security under ASC 320. As the investment includes a conversion option, we have elected to account for this investment under the fair value option to reduce the accounting asymmetry that would otherwise arise when recognizing the changes in the fair value of available-for-sale investments. Under the fair value option, any gains (losses) associated with the change in fair value will be recognized in Other income within our unaudited consolidated statements of comprehensive income. A \$68,650 unrealized gain was recognized during the three and nine months ended September 30, 2017 as Other income in our unaudited consolidated statements of comprehensive income associated with this investment. The fair value of our investment as of September 30, 2017 was \$552,245 and is recorded as a related party long-term asset within our unaudited consolidated balance sheets. This investment does not meet the requirements for the equity method of accounting as it does not qualify as in-substance common stock.

We have appointed three of our senior executives or members of our Board of Directors to Pandora's Board of Directors, one of whom serves as the Chairman of Pandora's Board of Directors.

Our right to designate directors will fall away once we and our affiliates fail to beneficially own shares of Series A Preferred Stock and/or Pandora Common Stock issued upon conversion thereof equal to (on an as-converted basis) at least 50% of the number of shares of Pandora Common Stock issuable upon conversion of the Series A Preferred Stock purchased under the Investment Agreement. Following the earlier to occur of (i) September 22, 2019 and (ii) the date on which we and our affiliates fail to beneficially own shares of Series A Preferred Stock and/or Pandora Common Stock that were issued upon conversion of Series A Preferred Stock equal to (on an as-converted basis) at least 75% of the number of shares of Pandora Common Stock issuable upon conversion of the Series A Preferred Stock purchased under the Investment Agreement, we have the right to designate only two directors.

We are subject to certain standstill restrictions, including, among other things, that we are restricted from acquiring additional securities of Pandora until December 9, 2018.

Except as to matters that may be voted upon separately by holders of the Series A Preferred Stock, we are entitled to vote as a single class with the holders of Pandora Common Stock on an as-converted basis (up to a maximum of 19.99% of the Pandora Common Stock outstanding on June 9, 2017, unless stockholder approval has been received). We are also entitled to a separate class vote with respect to certain amendments to Pandora's organizational documents, issuances by Pandora of securities that are senior to, or equal in priority with, the Series A Preferred Stock and the incurrence of certain indebtedness by Pandora.

Upon certain change of control events involving Pandora, Pandora is required to repurchase all of the Series A Preferred Stock at a price equal to the greater of (1) an amount in cash equal to 100% of the liquidation preference thereof plus all accrued but unpaid dividends through June 9, 2022 (assuming such shares of Series A Preferred Stock remain outstanding through such date) and (2) the consideration the holders would have received if they had converted their shares of Series A Preferred Stock into Pandora Common Stock immediately prior to the change of control event (disregarding the 19.99% cap).

Beginning on September 22, 2020, if the volume weighted average price per share of Pandora Common Stock exceeds \$18.375, as may be adjusted, for at least 20 trading days in any period of 30 consecutive trading days, Pandora may redeem all of the outstanding Series A Preferred Stock at a price equal to 100% of the liquidation preference thereof plus all accrued but unpaid dividends for, at the election of Pandora, cash, shares of Pandora Common Stock or a combination thereof, provided that, unless stockholder approval has been received, Pandora may not settle the

redemption for shares of Pandora Common Stock to the extent the 19.99% cap would be exceeded. Pursuant to a registration rights agreement entered into with Pandora, we have certain customary registration rights with respect to the Series A Preferred Stock and Pandora Common Stock issued upon conversion thereof.

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Results of Operations

Set forth below are our results of operations for the three and nine months ended September 30, 2017 compared with the three and nine months ended September 30, 2016.

	For the Three Months		For the Nine Months		2017 vs 2016 Change			
	Ended September 30,		Ended September 30,		Three Months		Nine Months	
	2017	2016	2017	2016	Amount	%	Amount	%
Revenue:								
Subscriber revenue	\$1,136,027	\$1,069,746	\$3,325,295	\$3,112,712	\$66,281	6 %	\$212,583	7 %
Advertising revenue	41,462	34,268	117,656	99,330	7,194	21 %	18,326	18 %
Equipment revenue	32,337	31,306	91,669	86,285	1,031	3 %	5,384	6 %
Other revenue	169,770	142,326	486,611	415,895	27,444	19 %	70,716	17 %
Total revenue	1,379,596	1,277,646	4,021,231	3,714,222	101,950	8 %	307,009	8 %
Operating expenses:								
Cost of services:								
Revenue share and royalties	296,498	272,823	866,691	788,952	23,675	9 %	77,739	10 %
Programming and content	98,239	89,015	290,038	257,760	9,224	10 %	32,278	13 %
Customer service and billing	94,655	94,923	286,754	285,502	(268)	— %	1,252	— %
Satellite and transmission	21,378	22,224	61,557	80,609	(846)	(4)%	(19,052)	(24)%
Cost of equipment	8,254	9,674	24,537	29,181	(1,420)	(15)%	(4,644)	(16)%
Subscriber acquisition costs	119,555	120,111	372,197	381,516	(556)	— %	(9,319)	(2)%
Sales and marketing	114,519	99,194	318,135	279,278	15,325	15 %	38,857	14 %
Engineering, design and development	29,433	19,254	81,033	57,588	10,179	53 %	23,445	41 %
General and administrative	83,187	90,369	245,995	249,052	(7,182)	(8)%	(3,057)	(1)%
Depreciation and amortization	79,913	67,880	230,136	202,215	12,033	18 %	27,921	14 %
Total operating expenses	945,631	885,467	2,777,073	2,611,653	60,164	7 %	165,420	6 %
Income from operations	433,965	392,179	1,244,158	1,102,569	41,786	11 %	141,589	13 %
Other income (expense):								
Interest expense	(92,634)	(89,092)	(257,085)	(250,888)	(3,542)	(4)%	(6,197)	(2)%
Loss on extinguishment of debt	(43,679)	—	(43,679)	—	(43,679)	— %	(43,679)	— %
Other income	86,971	2,370	83,897	15,733	84,601	nm	68,164	nm
Total other expense	(49,342)	(86,722)	(216,867)	(235,155)	37,380	43 %	18,288	8 %
Income before income taxes	384,623	305,457	1,027,291	867,414	79,166	26 %	159,877	18 %
Income tax expense	(108,901)	(111,556)	(342,387)	(326,108)	2,655	2 %	(16,279)	(5)%
Net income	\$275,722	\$193,901	\$684,904	\$541,306	\$81,821	42 %	\$143,598	27 %

nm - not meaningful

Total Revenue

Subscriber Revenue includes subscription, activation and other fees.

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For the three months ended September 30, 2017 and 2016, subscriber revenue was \$1,136,027 and \$1,069,746, respectively, an increase of 6%, or \$66,281. For the nine months ended September 30, 2017 and 2016, subscriber revenue was \$3,325,295 and \$3,112,712, respectively, an increase of 7%, or \$212,583. The increases were primarily attributable to a 4% and 5% increases in the daily weighted average number of subscribers for the three and nine month periods ended September 30, 2017, respectively, as well as a 3% increase in average monthly revenue per subscriber that resulted from certain rate increases implemented in 2016.

We expect subscriber revenues to increase based on the growth of our subscriber base, increases in certain of our subscription rates and the sale of additional services to subscribers.

Advertising Revenue includes the sale of advertising on certain non-music channels.

For the three months ended September 30, 2017 and 2016, advertising revenue was \$41,462 and \$34,268, respectively, an increase of 21%, or \$7,194. For the nine months ended September 30, 2017 and 2016, advertising revenue was \$117,656 and \$99,330, respectively, an increase of 18%, or \$18,326. The increases were primarily due to a greater number of advertising spots sold and transmitted as well as increases in rates charged per spot.

We expect our advertising revenue to continue to grow as more advertisers are attracted to our national platform and growing subscriber base and as we launch additional non-music channels.

Equipment Revenue includes revenue from the sale of satellite radios, components and accessories as well as the sale of connected vehicle devices and royalty revenue on chipset modules.

For the three months ended September 30, 2017 and 2016, equipment revenue was \$32,337 and \$31,306, respectively, an increase of 3%, or \$1,031. For the nine months ended September 30, 2017 and 2016, equipment revenue was \$91,669 and \$86,285, respectively, an increase of 6%, or \$5,384. The increase for the three and nine month period was driven by an increase in royalty revenue on certain modules starting in the second quarter of 2016 due to our transition to a new generation of chipsets and revenue from the sales of connected vehicle devices since the acquisition of Automatic, partially offset by lower satellite radio sales to distributors and consumers.

We expect equipment revenue to increase due to the increases in royalty revenues associated with certain modules related to our transition to a new generation of chipsets.

Other Revenue includes amounts earned from subscribers for the U.S. Music Royalty Fee, and service and advisory revenue from our Canadian affiliate, our connected vehicle services, and ancillary revenues.

For the three months ended September 30, 2017 and 2016, other revenue was \$169,770 and \$142,326, respectively, an increase of 19%, or \$27,444. For the nine months ended September 30, 2017 and 2016, other revenue was \$486,611 and \$415,895, respectively, an increase of 17%, or \$70,716. The increases were primarily driven by higher revenue from the new Sirius XM Canada service and advisory agreements, additional revenues from the U.S. Music Royalty Fee due to an increase in the number of subscribers and subscribers paying at a higher rate of 13.9% and higher revenue generated from our connected vehicle services.

Other revenue is expected to increase due to an increase in U.S. Music Royalty Fees as our subscriber base continues to grow and an increase in revenue from Sirius XM Canada due to the new service and advisory agreements.

Operating Expenses

Revenue Share and Royalties include royalties for transmitting content and web streaming as well as automaker, content provider and advertising revenue share.

For the three months ended September 30, 2017 and 2016, revenue share and royalties were \$296,498 and \$272,823, respectively, an increase of 9%, or \$23,675, and increased as a percentage of total revenue. For the nine months ended September 30, 2017 and 2016, revenue share and royalties were \$866,691 and \$788,952, respectively, an increase of 10%, or \$77,739, and increased as a percentage of total revenue. The increases were due to overall greater revenues subject to royalties for transmitting content and revenue share to automakers and a 5% increase in the statutory royalty rate applicable to our use of post-1972 recordings, which increased from 10.5% in 2016 to 11% in 2017.

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We expect our revenue share and royalty costs to increase as our revenues grow. Our revenue share and royalty costs may also increase as a result of a rate setting proceeding currently pending before the Copyright Royalty Board (“CRB”). The CRB initiated a proceeding in January 2016 to set the rates and terms by which our satellite radio service may perform sound recordings by digital transmission and make ephemeral reproductions during the 2018-2022 period. As part of this proceeding, SoundExchange, on behalf of the recording industry, proposed a new rate structure and a number of material changes to the governing regulations, including relating to the applicable revenue base for the percent-of-revenue royalty calculations and fees for trial subscriptions. If the CRB adopts the proposals made by SoundExchange, the ruling would further increase, possibly in a material manner, the sound recording royalties payable by us. The CRB is expected to issue its final ruling in this proceeding no later than December 15, 2017. Programming and Content includes costs to acquire, create, promote and produce content. We have entered into various agreements with third parties for music and non-music programming that require us to pay license fees and other amounts.

For the three months ended September 30, 2017 and 2016, programming and content expenses were \$98,239 and \$89,015, respectively, an increase of 10%, or \$9,224, and increased as a percentage of total revenue. For the nine months ended September 30, 2017 and 2016, programming and content expenses were \$290,038 and \$257,760, respectively, an increase of 13%, or \$32,278, and increased as a percentage of total revenue. The increases were primarily due to the addition of video content rights, payment for which started during the third quarter of 2016, as well as increased talent and personnel-related costs.

We expect our programming and content expenses to increase as we offer additional programming, and renew or replace expiring agreements.

Customer Service and Billing includes costs associated with the operation and management of internal and third party customer service centers, and our subscriber management systems as well as billing and collection costs, bad debt expense, and transaction fees.

For the three months ended September 30, 2017 and 2016, customer service and billing expenses were \$94,655 and \$94,923, respectively, a decrease of less than 1%, or \$268, and decreased as a percentage of total revenue. For the nine months ended September 30, 2017 and 2016, customer service and billing expenses were \$286,754 and \$285,502, respectively, an increase of less than 1%, or \$1,252, but decreased as a percentage of total revenue. For both the three and nine month periods, customer service and billing expense reflected lower call center costs due to lower agent rates and lower contact rates, partially offset by increased transaction fees and bad debt expense from a higher subscriber base.

We expect our customer service and billing expenses to increase as our subscriber base grows.

Satellite and Transmission consists of costs associated with the operation and maintenance of our terrestrial repeater networks; satellites; satellite telemetry, tracking and control systems; satellite uplink facilities; studios; and delivery of our Internet streaming and connected vehicle services.

For the three months ended September 30, 2017 and 2016, satellite and transmission expenses were \$21,378 and \$22,224, respectively, a decrease of 4%, or \$846, and decreased as a percentage of total revenue. For the nine months ended September 30, 2017 and 2016, satellite and transmission expenses were \$61,557 and \$80,609, respectively, a decrease of 24%, or \$19,052, and decreased as a percentage of total revenue. The decreases for the three and nine month periods were driven by lower wireless costs associated with our connected vehicle services, and lower terrestrial repeater costs as a result of the elimination of duplicative repeater sites; partially offset by increased Internet streaming costs. In addition, the nine month period ended September 30, 2016 included a loss on disposal of certain ob