

INTREXON CORP
Form 10-Q/A
August 13, 2018
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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM 10-Q/A
(Amendment No. 1)
x QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF
1934
For the quarterly period ended March 31, 2018
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: 001-36042
INTREXON CORPORATION
(Exact name of registrant as specified in its charter)
Virginia 26-0084895
(State or other jurisdiction of incorporation or organization) (I.R.S. Employer
Identification Number)

20374 Seneca Meadows Parkway 20876
Germantown, Maryland
(Address of principal executive offices) (Zip Code)
(301) 556-9900
(Registrant's telephone number, including area code)
(Former name, former address and former fiscal year, if changed since last report date)
Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the
Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was
required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No
Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if
any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T
(\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required
to submit and post such files). Yes No
Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a
smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer,"
"accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange
Act.
Large accelerated filer Accelerated filer
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.

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

As of April 30, 2018, 129,294,079 shares of common stock, no par value per share, were outstanding.

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Explanatory Note

Restatement of Consolidated Financial Statements

We are filing this Amendment No. 1 on Form 10-Q/A (the "Amendment") to restate the following items of our Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, which we originally filed with the Securities and Exchange Commission on May 10, 2018 (the "Original Form 10-Q"):

- (i) Item 1 of Part I "Financial Information"
- (ii) Item 2 of Part I "Management's Discussion and Analysis of Financial Condition and Results of Operations"
- (iii) Item 4 of Part I "Controls and Procedures"
- (iv) Item 6 of Part II "Exhibits"

We have also updated the signature page, the certifications of our Chief Executive Officer and Chief Financial Officer in Exhibits 31.1, 31.2, 32.1, and 32.2 and our financial statements formatted in Extensible Business Reporting Language (XBRL). No other sections were affected, but for the convenience of the reader, the report on Form 10-Q/A restates in its entirety, as amended, our Original Form 10-Q.

On August 9, 2018, after discussions with our management and outside advisors, the Audit Committee of our Board of Directors concluded that the restatement of the unaudited interim financial statements included in the Original Form 10-Q for the three months ended March 31, 2018 was required to correct errors in the Company's accounting related to the adoption of Accounting Standards Codification ("ASC") Topic 606, Revenue from Contracts with Customers ("ASC 606"), and related impacts on the accounting for revenue for the three months ended March 31, 2018.

Effective January 1, 2018, the Company adopted ASC 606 using the modified retrospective method. The Company has determined it incorrectly applied certain aspects of ASC 606 to its collaboration agreements, including gross versus net presentation for payments pursuant to one of the Company's contracts, the guidance for contract modifications for a contract that had been modified prior to the adoption of ASC 606, and the measurement of progress for performance obligations satisfied over time. These misstatements resulted in a misstatement of the deferred revenue and accumulated deficit by \$67.0 million as of the adoption date and an overstatement of revenues and an understatement of net loss by \$4.2 million for the three months ended March 31, 2018. In the unaudited consolidated financial statements included in the Original Form 10-Q, the Company accounted for payments pursuant to one of the Company's contracts using gross presentation but has subsequently determined that the payments should have been accounted for using net presentation. Separately, the Company also accounted for a contract modification prospectively from the date of the modification but has subsequently determined that the contract modification should have been accounted for through a cumulative catch-up adjustment on the date of modification.

This report on Form 10-Q/A has been signed as of a current date and all certifications of the Company's Chief Executive Officer and Chief Financial Officer are given as of a current date. Except as discussed above and as further described in Note 2 to the consolidated financial statements, the Company has not modified, or updated disclosures presented in this Amendment. Accordingly, the Amendment does not reflect events occurring after the Original Form 10-Q or modify or update those disclosures affected by subsequent events. Information not affected by the restatement is unchanged and reflects disclosures made at the time of the filing of the Original Form 10-Q. As a result of these misstatements, the Company has concluded there was a material weakness in the Company's internal control over financial reporting as of March 31, 2018. See additional discussion included in Part I, Item 4 of this amended Quarterly Report on Form 10-Q/A.

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Special Note Regarding Forward-Looking Statements

This amended Quarterly Report on Form 10-Q/A contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, which statements involve substantial risks and uncertainties. All statements, other than statements of historical facts, included in this amended Quarterly Report on Form 10-Q/A regarding our strategy, future events, future operations, future financial position, future revenue, projected costs, prospects, plans, objectives of management and expected market growth are forward-looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include, among other things, statements about:

- our strategy and overall approach to our business model;
- our ability to successfully enter new markets or develop additional products, whether with our collaborators or independently;
- our ability to successfully enter into optimal strategic relationships with our subsidiaries and operating companies that we may form in the future;
- competition from existing technologies and products or new technologies and products that may emerge;
- actual or anticipated variations in our operating results;
- our current and future joint ventures, or JVs, exclusive channel collaborations, or ECCs, license agreements and other collaborations;
- developments concerning our collaborators and licensees;
- actual or anticipated fluctuations in our competitors' or our collaborators' and licensees' operating results or changes in their respective growth rates;
- our cash position;
- market conditions in our industry;
- our ability to protect our intellectual property and other proprietary rights and technologies;
- our ability to adapt to changes in laws or regulations and policies;
- the ability of our collaborators and licensees to adapt to changes in laws or regulations and policies and to secure any necessary regulatory approvals to commercialize any products developed under the ECCs, license agreements and JVs
- the ability of our collaborators and licensees to protect our intellectual property and other proprietary rights and technologies;
- the ability of our collaborators and licensees to develop and successfully commercialize products enabled by our technologies;
- the rate and degree of market acceptance of any products developed by our subsidiaries, a collaborator under an ECC, or through a JV or license under a license agreement;
- our ability to retain and recruit key personnel;
- the result of litigation proceedings that we face currently or may face in the future;
- our expectations related to the use of proceeds from our public offerings and other financing efforts;

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our estimates regarding expenses, future revenue, capital requirements and needs for additional financing; and the impact of the Tax Cuts and Jobs Act of 2017 on our current and future operating results.

Forward-looking statements may also concern our expectations relating to our subsidiaries and other affiliates. We caution you that the foregoing list may not contain all of the forward-looking statements made in this amended Quarterly Report on Form 10-Q/A.

We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included in this amended Quarterly Report on Form 10-Q/A, particularly in Part II, Item 1A, "Risk Factors," that could cause actual results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments that we may make.

You should read this amended Quarterly Report on Form 10-Q/A, the documents that we reference in this amended Quarterly Report on Form 10-Q/A, our Annual Report on Form 10-K for the year ended December 31, 2017 and the documents that we have filed as exhibits to our filings with the Securities and Exchange Commission completely and with the understanding that our actual future results may be materially different from what we expect. We do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

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Item 1. Consolidated Financial Statements

Intrexon Corporation and Subsidiaries

Consolidated Balance Sheets

(Unaudited)

	March 31, 2018 (As Restated)	December 31, 2017
(Amounts in thousands, except share data)		
Assets		
Current assets		
Cash and cash equivalents	\$ 119,930	\$ 68,111
Restricted cash	6,987	6,987
Short-term investments	275	6,273
Equity securities	3,298	5,285
Receivables		
Trade, net	17,697	19,775
Related parties, net	10,585	17,913
Other	2,437	2,153
Inventory	20,271	20,493
Prepaid expenses and other	6,065	7,057
Total current assets	187,545	154,047
Equity securities, noncurrent	10,745	9,815
Investments in preferred stock	166,069	161,225
Property, plant and equipment, net	119,244	112,674
Intangible assets, net	231,883	232,877
Goodwill	154,748	153,289
Investments in affiliates	21,406	18,870
Other assets	4,026	4,054
Total assets	\$ 895,666	\$ 846,851

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

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Intrexon Corporation and Subsidiaries
 Consolidated Balance Sheets
 (Unaudited)

(Amounts in thousands, except share data)

March 31,
 2018 December 31,
 (As 2017
 Restated)

Liabilities and Total Equity

Current liabilities		
Accounts payable	\$ 7,842	\$ 8,701
Accrued compensation and benefits	11,356	6,474
Other accrued liabilities	18,041	21,080
Deferred revenue, including \$16,424 and \$29,155 from related parties as of March 31, 2018 and December 31, 2017, respectively	38,376	42,870
Lines of credit	321	233
Current portion of long term debt	501	502
Related party payables	147	313
Total current liabilities	76,584	80,173
Long term debt, net of current portion	7,425	7,535
Deferred revenue, net of current portion, including \$135,634 and \$157,628 from related parties as of March 31, 2018 and December 31, 2017, respectively	162,318	193,527
Deferred tax liabilities, net	11,631	15,620
Other long term liabilities	3,586	3,451
Total liabilities	261,544	300,306
Commitments and contingencies (Note 17)		
Total equity		
Common stock, no par value, 200,000,000 shares authorized as of March 31, 2018 and December 31, 2017; 129,239,376 and 122,087,040 shares issued and outstanding as of March 31, 2018 and December 31, 2017, respectively	—	—
Additional paid-in capital	1,492,916	1,397,005
Accumulated deficit	(867,374)	(847,820)
Accumulated other comprehensive loss	(9,737)	(15,554)
Total Intrexon shareholders' equity	615,805	533,631
Noncontrolling interests	18,317	12,914
Total equity	634,122	546,545
Total liabilities and total equity	\$ 895,666	\$ 846,851

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

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Intrexon Corporation and Subsidiaries
 Consolidated Statements of Operations
 (Unaudited)

(Amounts in thousands, except share and per share data)

	Three Months Ended March 31, 2018 (As Restated)		2017
Revenues			
Collaboration and licensing revenues, including \$16,640 and \$28,887 from related parties during the three months ended March 31, 2018 and 2017, respectively	\$19,848	\$33,065	
Product revenues	7,152	8,130	
Service revenues	12,247	12,031	
Other revenues	419	521	
Total revenues	39,666	53,747	
Operating Expenses			
Cost of products	8,530	9,006	
Cost of services	6,783	6,804	
Research and development	37,267	34,180	
Selling, general and administrative	39,737	35,138	
Total operating expenses	92,317	85,128	
Operating loss	(52,651)	(31,381)	
Other Income, Net			
Unrealized depreciation in fair value of equity securities and preferred stock, net	(1,096)	(1,622)	
Interest expense	(99)	(179)	
Interest and dividend income	5,470	4,624	
Other income (expense), net	(659)	595	
Total other income, net	3,616	3,418	
Equity in net loss of affiliates	(2,460)	(4,947)	
Loss before income taxes	(51,495)	(32,910)	
Income tax benefit	4,086	533	
Net loss	\$ (47,409)	\$ (32,377)	
Net loss attributable to the noncontrolling interests	1,244	978	
Net loss attributable to Intrexon	\$ (46,165)	\$ (31,399)	
Net loss attributable to Intrexon per share, basic and diluted	\$ (0.36)	\$ (0.26)	
Weighted average shares outstanding, basic and diluted	127,693,336	18,956,780	

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

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Intrexon Corporation and Subsidiaries
 Consolidated Statements of Comprehensive Loss
 (Unaudited)

	Three Months Ended March 31,	
	2018	March 31, (As Restated)
(Amounts in thousands)		
Net loss	\$(47,409)	\$(32,377)
Other comprehensive income (loss):		
Unrealized gain (loss) on investments	2	(20)
Gain on foreign currency translation adjustments	5,860	3,252
Comprehensive loss	(41,547)	(29,145)
Comprehensive loss attributable to the noncontrolling interests	1,303	981
Comprehensive loss attributable to Intrexon	\$(40,244)	\$(28,164)

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

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Intrexon Corporation and Subsidiaries
Consolidated Statements of Shareholders' and Total Equity
(Uunaudited)

(Amounts in thousands, except share data)	Common Stock Shares	Additional Paid-in Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Intrexon Shareholders	Total Noncontrolling Interests	Total Equity
Balances at December 31, 2017	122,087,040	\$ (−\$1,397,005)	\$ (15,554)	\$ (847,820)	\$ 533,631	\$ 12,914	\$ 546,545
Cumulative effect of adoption of ASC 606	—	—	(104)	26,611	26,507	—	26,507
Stock-based compensation expense	—	—	11,340	—	—	11,340	22
Exercises of stock options and warrants	21,722	—	74	—	—	74	250
Shares issued as payment for services	230,614	—	2,941	—	—	2,941	—
Shares and warrants issued in public offerings, net of issuance costs	6,900,000	—	82,374	—	—	82,374	5,616
Adjustments for noncontrolling interests	—	—	(818)	—	—	(818)	—
Net loss	—	—	—	(46,165)	(46,165)	(1,244)	(47,409)
Other comprehensive income (loss)	—	—	—	5,921	—	5,921	(59)
Balances at March 31, 2018 (as restated)	129,239,376	\$ (−\$1,492,916)	\$ (9,737)	\$ (867,374)	\$ 615,805	\$ 18,317	\$ 634,122

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

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Intrexon Corporation and Subsidiaries
 Consolidated Statements of Cash Flows
 (Unaudited)

(Amounts in thousands)	Three Months Ended March 31, 2018 (As Restated)	2017
Cash flows from operating activities		
Net loss	\$(47,409)	\$(32,377)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	8,382	7,400
Loss on disposal of long-lived assets	316	566
Unrealized depreciation on equity securities and preferred stock, net	1,096	1,622
Noncash dividend income	(4,883)	(3,926)
Amortization of premiums on investments	—	198
Equity in net loss of affiliates	2,460	4,947
Stock-based compensation expense	11,362	7,894
Shares issued as payment for services	2,941	2,915
Provision for bad debts	218	9
Deferred income taxes	(4,074)	(638)
Other noncash items	127	(146)
Changes in operating assets and liabilities:		
Receivables:		
Trade	1,856	1,931
Related parties	4,729	(4,994)
Other	(215)	859
Inventory	231	2,058
Prepaid expenses and other	1,062	210
Other assets	(47)	(526)
Accounts payable	(764)	(990)
Accrued compensation and benefits	4,851	924
Other accrued liabilities	(2,473)	69
Deferred revenue	(9,623)	(13,011)
Related party payables	(165)	161
Other long term liabilities	134	156
Net cash used in operating activities	(29,888)	(24,689)
Cash flows from investing activities		
Maturities of investments	6,000	45,000
Purchases of preferred stock and warrants	—	(1,161)
Investments in affiliates	(5,510)	(4,579)
Return of investment upon dissolution of affiliate	2,598	—
Purchases of property, plant and equipment	(10,774)	(6,343)
Proceeds from sale of property, plant and equipment	230	137
Proceeds from repayment of notes receivable	—	1,500
Net cash provided by (used in) investing activities	(7,456)	34,554

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

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Intrexon Corporation and Subsidiaries
 Consolidated Statements of Cash Flows
 (Unaudited)

(Amounts in thousands)	Three Months Ended March 31, 2018	2017 (As Restated)
Cash flows from financing activities		
Proceeds from issuance of shares and warrants in public offerings, net of issuance costs	87,990	—
Acquisitions of noncontrolling interests	—	(913)
Advances from lines of credit	1,239	1,678
Repayments of advances from lines of credit	(1,151)	(2,088)
Proceeds from long term debt	—	126
Payments of long term debt	(140)	(123)
Payments of deferred consideration for acquisitions	—	(1,991)
Proceeds from stock option and warrant exercises	324	175
Payment of stock issuance costs	—	(10)
Net cash provided by (used in) financing activities	88,262	(3,146)
Effect of exchange rate changes on cash, cash equivalents, and restricted cash	914	526
Net increase in cash, cash equivalents, and restricted cash	51,832	7,245
Cash, cash equivalents, and restricted cash		
Beginning of period	75,545	69,594
End of period	\$127,377	\$76,839
Supplemental disclosure of cash flow information		
Cash paid during the period for interest	\$82	\$70
Cash paid during the period for income taxes	20	—
Significant noncash financing and investing activities		
Stock issued to acquire noncontrolling interest	\$—	\$5,082
Noncash dividend to shareholders	—	22,385
Purchases of equipment included in accounts payable and other accrued liabilities	2,016	1,132
Purchases of equipment financed through debt	76	—

The following table provides a reconciliation of the cash, cash equivalents, and restricted cash balances as of March 31, 2018 and December 31, 2017 as shown above:

	March 31, December 31,	
	2018	2017
Cash and cash equivalents	\$119,930	\$ 68,111
Restricted cash	6,987	6,987
Restricted cash included in other assets	460	447
Cash, cash equivalents, and restricted cash	\$127,377	\$ 75,545

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

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Intrexon Corporation and Subsidiaries

Notes to Consolidated Financial Statements

(Unaudited)

(Amounts in thousands, except share and per share data)

1. Organization

Intrexon Corporation ("Intrexon"), a Virginia corporation, including through its wholly owned subsidiaries Precigen, Inc. ("Precigen") and ActoBio Therapeutics, Inc. ("ActoBio"), uses synthetic biology to focus on programming biological systems to alleviate disease, remediate environmental challenges, and provide sustainable food and industrial chemicals, which may be accomplished through collaborations and joint ventures. Intrexon's primary domestic operations are in California, Florida, Maryland, and Virginia, and its primary international operations are in Belgium and Hungary. There have been no commercialized products derived from Intrexon's collaborations to date. Trans Ova Genetics, L.C. ("Trans Ova"), and Progentus, L.C. ("Progentus"), providers of advanced reproductive technologies, including services and products sold to cattle breeders and other producers, are wholly owned subsidiaries with primary operations in Iowa, Maryland, Missouri, New York, Oklahoma, and Texas.

Oxitec Limited ("Oxitec"), a pioneering company in biological insect control solutions, is a wholly owned subsidiary of Intrexon with primary operations in England and Brazil.

Intrexon Produce Holdings, Inc. ("IPHI") is a wholly owned subsidiary of Intrexon. Okanagan Specialty Fruits, Inc. ("Okanagan"), a company which developed and received regulatory approval for the world's first non-browning apple without the use of any flavor-altering chemical or antioxidant additives, is a wholly owned subsidiary of IPHI with primary operations in Canada. Fruit Orchard Holdings, Inc. ("FOHI") is a wholly owned subsidiary of IPHI with primary operations in Washington.

ViaGen, L.C. ("ViaGen"), a provider of genetic preservation and cloning technologies, and Exemplar Genetics, LLC ("Exemplar"), a provider of genetically engineered swine for medical and genetic research, are wholly owned subsidiaries with primary operations in Texas and Iowa, respectively.

In January 2018, AquaBounty Technologies, Inc. ("AquaBounty"), a company focused on improving productivity in commercial aquaculture, completed an underwritten public offering which resulted in net proceeds of \$10,616 after deducting discounts, fees and expenses. As part of this offering, Intrexon purchased \$5,000 of additional AquaBounty common stock, reducing its ownership stake from approximately 58% to approximately 53%.

Intrexon Corporation and its consolidated subsidiaries are hereinafter referred to as the "Company."

2. Restatement of Consolidated Financial Statements

The Company has restated its quarterly unaudited consolidated financial statements as of and for the period ended March 31, 2018 to correct for a misstatement identified associated with the adoption of Accounting Standards Codification ("ASC") Topic 606, Revenue from Contracts with Customers, ("ASC 606"). Specifically, errors were identified related to gross versus net presentation for payments pursuant to one of the Company's contracts, the guidance for contract modifications to a contract that had been modified prior to the adoption of ASC 606, and the measure of progress for performance obligations satisfied over time. These misstatements resulted in an approximate \$67,000 misstatement of the cumulative effect of adoption of ASC 606, which overstated deferred revenues and accumulated deficit on the January 1, 2018 adoption date. These misstatements were comprised of (a) the contract modification error whereby a change in transaction price should have been accounted for on a cumulative catch-up basis at the amendment date versus a prospective basis (resulting in an overstatement of deferred revenues and accumulated deficit), (b) principal versus agent error whereby certain consideration received should have been excluded from the transaction price (resulting in an overstatement of deferred revenue and accumulated deficit), and (c) measure of progress error whereby progress should have been measured on a proportional performance basis (resulting in an understatement of deferred revenues and accumulated deficit). Further, the misstatements resulted in an overstatement of deferred revenues of approximately \$62,700 and of accumulated deficit of approximately \$62,800 as of March 31, 2018 and an overstatement of revenues and an understatement of net loss by approximately \$4,200 for the three months ended March 31, 2018 in the Company's Quarterly Report for Form 10-Q for the three months ended March 31, 2018 (the "Original Form 10-Q").

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As a result, the Company determined that the previously issued unaudited consolidated financial statements contained in the Original 10-Q are being restated to reflect the proper application of ASC 606. See further discussion of these changes and the Company's revenue recognition policies at Note 3, "Summary of Significant Accounting Policies." The following tables summarize the adjustments to the specific line items presented in the Company's consolidated financial statements included in the Original 10-Q as a result of the restatement.

	March 31, 2018		
	As Previously Reported	Effect of Restatement	As Restated
Consolidated Balance Sheet			
Deferred revenue, current (1)	\$ 48,646	\$ (10,270)	\$ 38,376
Total current liabilities	86,854	(10,270)	76,584
Deferred revenue, net of current portion (1)	214,744	(52,426)	162,318
Total liabilities	324,240	(62,696)	261,544
Accumulated deficit	(930,220)	62,846	(867,374)
Accumulated other comprehensive loss	(9,587)	(150)	(9,737)
Total Intrexon shareholders' equity	553,109	62,696	615,805
Total equity	571,426	62,696	634,122
The current and long-term portion of deferred revenue from related parties, as previously reported, totaled \$28,684 and \$147,708, respectively. The effect of restatement caused decreases of \$12,260 and \$12,074, respectively, (1) resulting in current and long-term deferred revenue from related parties, as restated, totaling \$16,424 and \$135,634, respectively.			
Three Months Ended March 31, 2018			
	As Previously Reported	Effect of Restatement	As Restated
Consolidated Statement of Operations			
Collaboration and licensing revenues (1)	24,025	(4,177)	19,848
Total revenues	43,843	(4,177)	39,666
Operating loss	(48,474)	(4,177)	(52,651)
Loss before income taxes	(47,318)	(4,177)	(51,495)
Net loss	(43,232)	(4,177)	(47,409)
Net loss attributable to Intrexon	(41,988)	(4,177)	(46,165)
Net loss attributable to Intrexon per share, basic and diluted	(0.33)	(0.03)	(0.36)
Collaboration and licensing revenues from related parties, as previously reported, totaled \$19,815. The effect of (1) restatement caused a decrease of \$3,175, resulting in collaboration and licensing revenues from related parties, as restated, totaling \$16,640.			
Three Months Ended March 31, 2018			
	As Previously Reported	Effect of Restatement	As Restated
Consolidated Statement of Comprehensive Loss			
Net loss	\$(43,232)	\$ (4,177)	\$(47,409)
Gain on foreign currency translation adjustments	5,906	(46)	5,860
Comprehensive loss	(37,324)	(4,223)	(41,547)
Comprehensive loss attributable to Intrexon	(36,021)	(4,223)	(40,244)

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	Three Months Ended March 31, 2018	As Previously Restated Reported	As Effect of Restatement Restated Reported
Consolidated Statements of Shareholders' and Total Equity			
Cumulative effect of adoption of ASC 606 attributable to:			
Accumulated other comprehensive loss	\$—\$ (104)	\$ (104)	
Accumulated deficit	(40,67,023	26,611	
Total Intrexon's shareholders' equity	(40,66,919	26,507	
Total equity	(40,66,919	26,507	
Net loss attributable to:			
Accumulated deficit	(41,98,877	) (46,165)	
Total Intrexon's shareholders' equity	(41,98,877	) (46,165)	
Total equity	(43,23,277	) (47,409)	
Other comprehensive loss attributable to:			
Accumulated other comprehensive loss	5,96,746	) 5,921	
Total Intrexon's shareholders' equity	5,96,746	) 5,921	
Total equity	5,90,86	) 5,862	
Balances as of March 31, 2018:			
Accumulated other comprehensive loss	(9,58,550	) (9,737)	
Accumulated deficit	(93,62,346	(867,374	
Total Intrexon's shareholders' equity	55,36,096	615,805	
Total equity	57,16,2696	634,122	
Three Months Ended March 31, 2018			
	As Previously Restated Reported	As Effect of Restatement Restated Reported	
Consolidated Statement of Cash Flows			
Cash flows from operating activities			
Net loss	\$ (43,232)	\$ (4,177)	\$ (47,409)
Adjustments to reconcile net loss to net cash used in operating activities:			
Changes in deferred revenue	(13,800)	4,177	(9,623)
The impact of the restatement is reflected throughout the remaining footnotes of the Company's amended Quarterly Report for Form 10-Q/A as of and for the three months ended March 31, 2018.			
3. Summary of Significant Accounting Policies			
Basis of Presentation			
The accompanying interim consolidated financial statements are unaudited and have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP"). Certain information and footnote disclosures normally included in the Company's annual financial statements have been condensed or omitted. These interim consolidated financial statements, in the opinion of management, reflect all normal recurring adjustments necessary for fair statement of the Company's financial position as of March 31, 2018 and results of operations and cash flows for the interim periods ended March 31, 2018 and 2017. The year-end consolidated balance sheet data was derived from the Company's audited financial statements but does not include all disclosures required by U.S. GAAP. These interim financial results are not necessarily indicative of the results to be expected for the year ending December 31, 2018, or for any other future annual or interim period. The accompanying interim unaudited consolidated financial statements should be read in conjunction with the			

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audited consolidated financial statements and related notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

The accompanying consolidated financial statements reflect the operations of the Company and its subsidiaries. All intercompany accounts and transactions have been eliminated.

Revenue Recognition

Effective January 1, 2018, the Company applies ASC 606. Under ASC 606, the Company recognizes revenue when its customer obtains control of the promised goods or services, in an amount that reflects the consideration that the Company expects to receive in exchange for those goods or services. To determine revenue recognition for arrangements that are within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer; (ii) identify the promises and distinct performance obligations in the contract; (iii) determine the transaction price; (iv) allocate the transaction price to the performance obligations in the contract; and (v) recognize revenue when (or as) the Company satisfies the performance obligations.

The Company's revenue recognition accounting policies for periods prior to January 1, 2018 can be found in the audited consolidated financial statements and related notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

Collaboration and licensing revenues

The Company generates collaboration and licensing revenues through the execution of agreements with collaborators (known as exclusive channel collaborations, "ECC" or "ECCs") and licensing agreements whereby the collaborators or the licensee obtain exclusive access to the Company's proprietary technologies for use in the research, development and commercialization of products and/or treatments in a contractually specified field of use. Generally, the terms of these agreements provide that the Company receives some or all of the following: (i) upfront payments upon consummation of the agreement, (ii) reimbursements for costs incurred by the Company for research and development and/or manufacturing efforts related to specific applications provided for in the agreement, (iii) milestone payments upon the achievement of specified development, regulatory and commercial activities, and (iv) royalties on sales of products arising from the collaboration or licensing agreement. The agreement typically continues in perpetuity unless terminated and each of the Company's collaborators retain a right to terminate the agreement upon providing the Company written notice a certain period of time prior to such termination, generally 90 days.

The Company's collaboration and licensing agreements typically contain multiple promises, including technology licenses, research and development services, and in certain cases manufacturing services. The Company determines whether each of the promises is a distinct performance obligation. As the nature of the promises in the Company's collaboration and licensing agreements are highly integrated and interrelated, the Company typically combines most of its promises into a single performance obligation. Because the Company is performing research and development services during early-stage development, the services are integral to the utilization of the technology license.

Therefore, the Company has determined that the technology license and research and development services are typically inseparable from each other during the performance period of its collaboration and licensing agreements. Contingent manufacturing services that may be provided under certain of the Company's agreements are considered to be a separate future contract and not part of the current collaboration or licensing agreement.

At contract inception, the Company determines the transaction price, including fixed consideration and any estimated amounts of variable consideration. The upfront payment received upon consummation of the agreement is fixed and nonrefundable. Variable consideration is subject to a constraint and amounts are included in the transaction price to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is subsequently resolved. Variable consideration may include reimbursements for costs incurred by the Company for research and development efforts, milestone payments upon the achievement of certain development, regulatory and commercial activities, and royalties on sales of products arising from the collaboration or licensing agreement. The Company determines the initial transaction price and excludes variable consideration that is otherwise constrained pursuant to the guidance in ASC 606.

The transaction price is allocated to the performance obligations in the agreement based on the standalone selling price of each performance obligation. The Company typically groups the promises in its collaboration and licensing agreements into one performance obligation so the entire transaction price relates to this single performance

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obligation. The technology license included in the single performance obligation is considered a functional license. However, it is typically combined into a single

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performance obligation as the Company provides interrelated research and development services along with other obligations over an estimated period of performance. The Company utilizes judgment to determine the most appropriate method to measure its progress of performance under the agreement, primarily based on inputs necessary to fulfill the performance obligation. The Company evaluates its measure of progress to recognize revenue each reporting period and, if necessary, adjusts the measure of performance and related revenue recognition.

Payments received for cost reimbursements for research and development efforts are recognized as revenue as the services are performed, in connection with the single performance obligation discussed above. The reimbursements relate specifically to the Company's efforts to provide services and the reimbursements are consistent with what the Company would typically charge other collaborators for similar services.

Milestone payments are evaluated at the inception of the agreement to determine whether the milestones are considered probable of being achieved. The Company typically determines that the milestones are not probable at inception of the agreement due to the uncertainty of when and if the milestone will be achieved.

Royalties, including sales-based milestones, received under the agreements will be recognized as revenue when sales have occurred because the Company applies the sales- or usage-based royalties recognition exception provided for under ASC 606. The Company determined the application of this exception is appropriate because at the time the royalties are generated, the technology license granted in the agreement is the predominant item to which the royalties relate.

As the Company receives upfront payments in its collaboration and licensing agreements, it evaluates whether any significant financing components exist in its collaboration and licensing agreements. Based on the nature of its collaboration and licensing agreements, there are no significant financing components as the purpose of the upfront payment is not to provide financing. The purpose is to provide the collaborator with assurance that the Company will complete its obligations under the contract or to secure the right to a specific product or service at the collaborator's discretion. In addition, the variable payments generally align with the timing of performance or the timing of the consideration varies on the basis of the occurrence or nonoccurrence of a future event that is not substantially within the control of the collaborator or the Company.

From time to time, the Company and certain collaborators may cancel their agreements, relieving the Company of any further performance obligations under the agreement. When no further performance obligations are required of the Company under an agreement, the Company recognizes any remaining deferred revenue.

Product and service revenues

The Company generates product and service revenues primarily through sales of products and services which are created from technologies developed or owned by the Company. The Company's current offerings include sales of advanced reproductive technologies, including the Company's bovine embryo transfer and in vitro fertilization processes and from genetic preservation and sexed semen processes and applications of such processes to other livestock, as well as sales of livestock and embryos produced using these processes and used in production. As each promised product or service is distinct, the Company recognizes the transaction price as revenue when the customer takes ownership of the promised product or when the promised service is rendered. Payment terms are typically due within 30 days.

Equity Method Investments

The Company accounts for its investments in each of its joint ventures and for its investments in start-up entities backed by the Harvest Intrexon Enterprise Fund I, LP ("Harvest"), a related party, (Note 18) using the equity method of accounting based upon relative ownership interest. The Company's investments in these entities are included in investments in affiliates in the accompanying consolidated balance sheets.

The Company accounts for its investment in Oragenics, Inc. ("Oragenics"), one of its collaborators, using the fair value option. The fair value of the Company's investment in Oragenics was \$2,334 and \$3,085 as of March 31, 2018 and December 31, 2017, respectively, and is included as equity securities in the accompanying consolidated balance sheets. The Company's ownership of Oragenics was 27.9% and 29.4% as of March 31, 2018 and December 31, 2017, respectively. Unrealized depreciation in the fair value of these securities was \$751 and \$1,341 for the three months ended March 31, 2018 and 2017, respectively. See Note 8 for additional discussion regarding Oragenics.

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Summarized financial data as of March 31, 2018 and December 31, 2017 and for the three months ended March 31, 2018 and 2017, for the Company's equity method investments are shown in the following tables.

	March 31, December 31,
	2018 2017
Current assets	\$ 57,724 \$ 61,086
Non-current assets	15,553 13,598
Total assets	73,277 74,684
Current liabilities	7,946 6,213
Net assets	\$ 65,331 \$ 68,471

	Three Months Ended	
	March 31,	
	2018 2017	
Revenues	\$67 \$30	
Operating expenses	8,610 13,343	
Operating loss	(8,543) (13,313)	
Other, net	14 5	
Net loss	\$(8,529) \$(13,308)	

Variable Interest Entities

As of March 31, 2018 and December 31, 2017, the Company determined that certain of its collaborators and joint ventures as well as Harvest were variable interest entities ("VIE" or "VIEs"). The Company was not the primary beneficiary for these entities since it did not have the power to direct the activities that most significantly impact the economic performance of the VIEs. The Company's aggregate investment balances of these VIEs as of March 31, 2018 and December 31, 2017 were \$191,731 and \$185,261, respectively, which represents the Company's maximum risk of loss related to the identified VIEs.

Income Taxes

Income taxes are accounted for under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to both differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases as well as operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date of the change. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

The Company identifies any uncertain income tax positions and recognizes the effect of income tax positions only if those positions are more likely than not of being sustained. Recognized income tax positions are measured at the largest amount that is greater than 50% likely of being realized. Changes in recognition or measurement are reflected in the period in which the change in judgment occurs. The Company records interest, if any, related to unrecognized tax benefits as a component of interest expense. Penalties, if any, are recorded in selling, general and administrative expenses.

On December 22, 2017, the Tax Cuts and Jobs Act of 2017 (the "Tax Act") was signed into law and significantly revised U.S. corporate income tax law by, among other things, reducing the corporate income tax rate to 21% effective January 1, 2018, eliminating the corporate alternative minimum tax and implementing a modified territorial tax system that includes a one-time transition tax on deemed repatriated earnings from foreign subsidiaries. The U.S. Securities and Exchange Commission ("SEC") Staff issued Staff Accounting Bulletin No. 118 ("SAB 118") to address the application of U.S. GAAP in situations when a registrant does not have the necessary information available, prepared, or analyzed, including computations, in reasonable detail to complete the accounting for certain income tax effects of the Tax Act. The Company recognized provisional tax impacts related to revaluation of most of the

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Company's domestic deferred tax assets, the impact of revaluation of those deferred tax assets on the Company's valuation allowance and elimination of the corporate alternative minimum tax, and included those amounts in the consolidated financial statements for the year ended December 31, 2017. The actual impact

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of the Tax Act may differ from the Company's estimates due to, among other things, changes in interpretations and assumptions made, and guidance that may be issued as a result of the Tax Act.

In addition, the Tax Act implemented a new minimum tax on global intangible low-taxed income ("GILTI"). A company can elect an accounting policy to account for GILTI in either of the following ways:

As a period charge in the future period in which the tax arises; or

As part of deferred taxes related to the investment or subsidiary.

The Company has not made a policy decision regarding whether to record deferred taxes under the GILTI regime. The accounting is expected to be completed within the one-year measurement period as allowed by SAB 118 for items impacted or introduced by the Tax Act. No further adjustments to these provisional amounts occurred in the three months ended March 31, 2018 and the amounts continue to be provisional.

Segment Information

While the Company generates revenues from multiple sources, including collaboration agreements, licensing, and products and services primarily associated with bovine reproduction, management is organized around a singular research and development focus to further the development of the Company's underlying synthetic biology technologies. Accordingly, the Company has determined that it operates in one segment. As of March 31, 2018 and December 31, 2017, the Company had \$23,019 and \$21,837, respectively, of long-lived assets in foreign countries.

The Company recognized revenues derived in foreign countries totaling \$4,203 and \$3,714 for the three months ended March 31, 2018 and 2017, respectively.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting periods. Actual results could differ from those estimates.

Recently Adopted Accounting Pronouncements

The Company adopted ASC 606 for open contracts on January 1, 2018 using the modified retrospective approach. As a result of the adoption of ASC 606, after correcting the misstatements discussed in Note 2, the Company recognized a cumulative catch-up adjustment to decrease deferred revenue in the net amount of \$26,507 and accumulated deficit in the net amount of \$26,611 and to increase accumulated other comprehensive loss in the net amount of \$104.

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In accordance with ASC 606, the disclosure of the impacted line items upon adoption of ASC 606 on the Company's consolidated statement of operations for the three months ended March 31, 2018 and consolidated balance sheet as of March 31, 2018 was as follows:

Three Months Ended March 31, 2018			
	As Restated	Without Adoption of ASC 606	Balances Effect of Change
Consolidated Statement of Operations			
Collaboration and licensing revenues	\$ 19,848	\$ 22,444	\$(2,596)
Net loss	(47,409)	(44,813)	(2,596)
Net loss attributable to Intrexon	(46,165)	(43,569)	(2,596)
March 31, 2018			
	As Restated	Without Adoption of ASC 606	Balances Effect of Change
Consolidated Balance Sheet			
Liabilities			
Deferred revenue, current	\$ 38,376	\$ 42,320	\$(3,944)
Deferred revenue, net of current portion	162,318	182,239	(19,921)
Total Equity			
Accumulated deficit	(867,374)	(891,389)	24,015
Accumulated other comprehensive loss	(9,737)	(9,586)	(151)

In May 2017, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2017-09, Compensation-Stock Compensation (Topic 718) – Scope of Modification Accounting ("ASU 2017-09"). The provisions of ASU 2017-09 provide guidance about which changes to the terms or conditions of a share-based payment award require an entity to apply modification accounting in Topic 718. An entity should account for the effects of a modification unless (a) the fair value of the modified award is the same as the fair value of the original award, (b) the vesting conditions of the modified award are the same as the vesting conditions of the original award and (c) the classification of the modified award as an equity instrument or a liability instrument is the same as the classification of the original award immediately before the original award is modified. The Company adopted this standard effective January 1, 2018, and will apply this guidance to future modifications.

In November 2016, the FASB issued ASU 2016-18, Statement of Cash Flows (Topic 230) - Restricted Cash (A Consensus of the FASB Emerging Issues Task Force) ("ASU 2016-18"). The provisions of ASU 2016-18 require amounts generally described as restricted cash and restricted cash equivalents to be included with cash and cash equivalents when reconciling the total beginning and ending balances for the periods presented on the statement of cash flows. The Company adopted this standard effective January 1, 2018. In accordance with the provisions of ASU 2016-18, the "Cash, cash equivalents, and restricted cash" beginning period balance increased by \$7,434 for the three months ended March 31, 2018 in the accompanying consolidated statement of cash flows for the three months ended March 31, 2018, and the beginning and ending period balances increased by \$6,987 in the accompanying consolidated statement of cash flows for the three months ended March 31, 2017 from what was previously reported in the Company's Quarterly Report on Form 10-Q for the period ended March 31, 2017.

In October 2016, the FASB issued ASU 2016-16, Income Taxes (Topic 740) - Intra-Entity Transfers of Assets Other Than Inventory ("ASU 2016-16"). The provisions of ASU 2016-16 remove the prohibition in ASC 740 against the immediate recognition of the current and deferred income tax effects of intra-entity transfers of assets other than

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inventory. The Company adopted this standard effective January 1, 2018, and the implementation of this standard did not have a material impact on the Company's consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, Statement of Cash Flows (Topic 230) - Classification of Certain Cash Receipts and Cash Payments ("ASU 2016-15"). The provisions of ASU 2016-15 address eight specific cash flow issues and how those

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certain cash receipts and cash payments are presented and classified in the statement of cash flows under Topic 230, Statement of Cash Flows, and other Topics. The Company adopted this standard effective January 1, 2018, and the implementation of this standard did not have a material impact on the Company's consolidated financial statements. In January 2016, the FASB issued ASU 2016-01, Financial Instruments - Overall (Subtopic 825-10) - Recognition and Measurement of Financial Assets and Financial Liabilities ("ASU 2016-01"). The provisions of ASU 2016-01 make targeted improvements to enhance the reporting model for financial instruments to provide users of financial statements with more decision-useful information, including certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. In February 2018, the FASB issued ASU 2018-03, Technical Corrections and Improvements to Financial Instruments-Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities, to clarify certain aspects of the guidance issued in ASU 2016-01. The Company adopted this standard effective January 1, 2018, and the implementation of this standard did not have a material impact on the Company's consolidated financial statements.

Recently Issued Accounting Pronouncements

In February 2018, the FASB issued ASU 2018-02, Income Statement-Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income ("ASU 2018-02"). The provisions of ASU 2018-02 allow a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the Tax Act. The guidance is effective for annual periods and interim periods within those annual periods beginning after December 15, 2018, with early adoption permitted, and is effective for the Company for the year ending December 31, 2019. The amendments in ASU 2018-02 may be applied either in the period of adoption or retrospectively to each period (or periods) in which the effect of the change in the U.S. federal corporate income tax rate in the Tax Act is recognized. The Company is currently evaluating the impact that the implementation of this standard will have on the Company's consolidated financial statements.

In July 2017, the FASB issued ASU 2017-11, Earnings Per Share (Topic 260), Distinguishing Liabilities from Equity (Topic 480) and Derivatives and Hedging (Topic 815): I. Accounting for Certain Financial Instruments with Down Round Features; II. Replacement of the Indefinite Deferral for Mandatorily Redeemable Financial Instruments of Certain Nonpublic Entities and Certain Mandatorily Redeemable Noncontrolling Interests with a Scope Exception ("ASU 2017-11"). The amendments in Part I of ASU 2017-11 change the classification analysis of certain equity-linked financial instruments (or embedded features) with down round features. When determining whether certain financial instruments should be classified as liabilities or equity instruments, a down round feature no longer precludes equity classification when assessing whether the instrument is indexed to an entity's own stock. The amendments also clarify existing disclosure requirements for equity-classified instruments. As a result, a freestanding equity-linked financial instrument (or embedded conversion option) no longer would be accounted for as a derivative liability at fair value as a result of the existence of a down round feature. For freestanding equity-classified financial instruments, the amendments require entities that present earnings per share ("EPS") in accordance with Topic 260 to recognize the effect of the down round feature when it is triggered. That effect is treated as a dividend and as a reduction of income available to common shareholders in basic EPS. Convertible instruments with embedded conversion options that have down round features are now subject to the specialized guidance for contingent beneficial conversion features (in Subtopic 470-20, Debt-Debt with Conversion and Other Options), including related EPS guidance (in Topic 260). The amendments in Part II of ASU 2017-11 re-characterize the indefinite deferral of certain provisions of Topic 480 that now are presented as pending content in the FASB codification, to a scope exception. Those amendments do not have an accounting effect. The guidance is effective for annual periods and interim periods within those annual periods beginning after December 15, 2018, with early adoption permitted, and is effective for the Company for the year ending December 31, 2019. The Company is currently evaluating the impact that the implementation of this standard will have on the Company's consolidated financial statements.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842) ("ASU 2016-02"). The provisions of ASU 2016-02 set out the principles for the recognition, measurement, presentation and disclosure of leases for both parties to a contract (i.e. lessees and lessors). The new standard requires lessees to apply a dual approach, classifying leases as either finance or operating leases based on the principle of whether or not the lease is effectively a financed purchase by the lessee. This classification will determine whether lease expense is recognized based on an effective interest

method or on a straight-line basis over the term of the lease, respectively. A lessee is also required to record a right-of-use asset and a lease liability for all leases with a term of greater than 12 months regardless of their classification. Leases with a term of 12 months or less will be accounted for in a similar manner as under existing guidance for operating leases today. ASU 2016-02 supersedes the previous lease standard, Topic 840, Leases. The guidance is effective for annual periods and interim periods within those annual periods beginning after December 15, 2018, and is effective for the Company for the year ending December 31, 2019. The Company is currently evaluating its lease agreements to determine the impact that the implementation of this standard will have on the

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Company's consolidated financial statements as it relates to the classification of leases under the dual approach and the recognition of a right-of-use asset and a lease liability.

4. Mergers and Acquisitions

GenVec Acquisition

In June 2017, pursuant to an Agreement and Plan of Merger (the "GenVec Merger Agreement"), the Company acquired 100% of the outstanding shares of GenVec, Inc. ("GenVec"), a clinical-stage company and pioneer in the development of AdenoVerse gene delivery technology. Pursuant to the GenVec Merger Agreement, the former shareholders of GenVec received an aggregate of 684,240 shares of the Company's common stock and have the right to receive contingent consideration equal to 50% of any milestone or royalty payments received under one of GenVec's collaboration agreements, provided such payments are received within three years after the closing of the transaction. The Company also assumed warrants held by certain former shareholders of GenVec. The results of GenVec's operations subsequent to the acquisition date have been included in the consolidated financial statements. The fair value of the total consideration transferred was \$17,582. The acquisition date fair value of each class of consideration transferred is presented below:

Common shares	\$15,616
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Warrants	1,381
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Contingent consideration	585
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	\$17,582
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The fair value of the shares of the Company's common stock issued was based on the quoted closing price of the Company's common stock immediately prior to the closing of the acquisition. The fair value of the warrants assumed was estimated using the Black-Scholes option-pricing model. The fair value of the contingent consideration was determined using a probability weighted discounted cash flows model and is considered a freestanding financial instrument and recorded at fair value each reporting period. The estimated fair value of assets acquired and liabilities assumed at the acquisition date is shown below:

Cash and cash equivalents	\$2,054
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Short term investments	542
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Trade receivables	75
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Other receivables	97
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Prepaid expenses and other	227
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Property and equipment	250
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Intangible assets	14,000
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Other noncurrent assets	58
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Total assets acquired	17,303
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Accounts payable	2,158
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Accrued compensation and benefits	1,226
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Other accrued expenses	856
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Other long term liabilities	92
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Deferred tax liabilities	239
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Total liabilities assumed	4,571
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Net assets acquired	12,732
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Goodwill	4,850
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Total consideration	\$17,582
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The acquired intangible assets include developed technology, the fair value of which was determined using the multi-period excess earning method, which is a variation of the income approach that converts future cash flows to single discounted present value amounts. The intangible assets are being amortized over a useful life of eleven years. Goodwill, which is not deductible

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for tax purposes, represents the assembled workforce and the anticipated buyer-specific synergies arising from the combination of the Company's and GenVec's technology.

Acquisition-related costs totaling \$238 are included in selling, general and administrative expenses in the accompanying consolidated statement of operations for the three months ended March 31, 2017.

Condensed Pro Forma Financial Information

GenVec's results of operations subsequent to the acquisition are included in the consolidated statement of operations. The following condensed pro forma financial information for the three months ended March 31, 2017 is presented as if the acquisition had been consummated on January 1, 2016:

	Three Months Ended March 31, 2017 Pro forma
Revenues	\$ 53,861
Loss before income taxes	(36,765)
Net loss	(36,232)
Net loss attributable to the noncontrolling interests	978
Net loss attributable to Intrexon	(35,254)

5. Investments in Joint Ventures

S & I Ophthalmic

In September 2013, the Company entered into a Limited Liability Company Agreement ("Sun LLC Agreement") with Sun Pharmaceutical Industries, Inc. ("Sun Pharmaceutical Subsidiary"), an indirect subsidiary of Sun Pharmaceutical Industries Ltd. ("Sun Pharmaceutical"), an international specialty pharmaceutical company focused on chronic diseases, to form S & I Ophthalmic, LLC ("S & I Ophthalmic"). The Sun LLC Agreement governed the affairs and the conduct of business of S & I Ophthalmic. S & I Ophthalmic leveraged experience and technology from both the Company and Sun Pharmaceutical. Both the Company and Sun Pharmaceutical Subsidiary made an initial capital contribution of \$5,000 in October 2013 for a 50% membership interest in S & I Ophthalmic. S & I Ophthalmic was governed by a board of managers which had four members, two each from the Company and Sun Pharmaceutical Subsidiary. In 2015, both the Company and Sun Pharmaceutical Subsidiary made subsequent capital contributions of \$5,000.

In December 2017, both the Company and Sun Pharmaceutical Subsidiary agreed to dissolve S & I Ophthalmic and terminate the related ECC agreement. In January 2018, the Company received \$2,598 upon the dissolution of S & I Ophthalmic which represented the Company's portion of S & I Ophthalmic's remaining cash after all liabilities were settled.

OvaXon

In December 2013, the Company and OvaScience, Inc. ("OvaScience"), a life sciences company focused on the discovery, development, and commercialization of new treatments for infertility, entered into a Limited Liability Company Agreement ("OvaXon LLC Agreement") to form OvaXon, LLC ("OvaXon"), a joint venture to create new applications for improving human and animal health. Both the Company and OvaScience made an initial capital contribution of \$1,500 in January 2014 for a 50% membership interest in OvaXon. OvaXon is governed by the OvaXon board of managers ("OvaXon Board") which has four members, two each from the Company and OvaScience. In cases in which the OvaXon Board determines that additional capital contributions are necessary in order for OvaXon to conduct business and comply with its obligations, each of the Company and OvaScience has the right, but not the obligation, to make additional capital contributions to OvaXon subject to the OvaXon LLC Agreement. Through March 31, 2018, both the Company and OvaScience have made subsequent capital contributions of \$4,350.

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In March 2018, the Company and OvaScience agreed to terminate the ECC agreement with OvaScience. The Company and OvaScience are in discussions regarding dissolving the OvaXon joint venture and terminating the related ECC agreement.

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The Company's investment in OvaXon was \$146 as of March 31, 2018 and December 31, 2017, and is included in investments in affiliates in the accompanying consolidated balance sheets.

Intrexon Energy Partners

In March 2014, the Company and certain investors (the "IEP Investors"), including an affiliate of Third Security, LLC ("Third Security"), entered into a Limited Liability Company Agreement which governs the affairs and conduct of business of Intrexon Energy Partners, LLC ("Intrexon Energy Partners"), a joint venture formed to optimize and scale-up the Company's methane bioconversion platform ("MBP") technology for the production of certain fuels and lubricants. The Company also entered into an ECC with Intrexon Energy Partners providing exclusive rights to the Company's technology for the use in bioconversion, as a result of which the Company received a technology access fee of \$25,000 while retaining a 50% membership interest in Intrexon Energy Partners. The IEP Investors made initial capital contributions, totaling \$25,000 in the aggregate, in exchange for pro rata membership interests in Intrexon Energy Partners totaling 50%. In addition, Intrexon has committed to make capital contributions of up to \$25,000, and the IEP Investors, as a group and pro rata in accordance with their respective membership interests in Intrexon Energy Partners, have committed to make additional capital contributions of up to \$25,000, at the request of Intrexon Energy Partners' board of managers (the "Intrexon Energy Partners Board") and subject to certain limitations. As of March 31, 2018, the Company's remaining commitment was \$6,011. Intrexon Energy Partners is governed by the Intrexon Energy Partners Board which has five members. Two members of the Intrexon Energy Partners Board are designated by the Company and three members are designated by a majority of the IEP Investors. The Company and the IEP Investors have the right, but not the obligation, to make additional capital contributions above the initial limits when and if solicited by the Intrexon Energy Partners Board.

The Company's investment in Intrexon Energy Partners was \$(806) and \$(444) as of March 31, 2018 and December 31, 2017, respectively, and is included in other accrued liabilities in the accompanying consolidated balance sheets.

Intrexon Energy Partners II

In December 2015, the Company and certain investors (the "IEPII Investors"), including Harvest, entered into a Limited Liability Company Agreement which governs the affairs and conduct of business of Intrexon Energy Partners II, LLC ("Intrexon Energy Partners II"), a joint venture formed to utilize the Company's MBP technology for the production of 1,4-butanediol, an industrial chemical used to manufacture spandex, polyurethane, plastics, and polyester. The Company also entered into an ECC with Intrexon Energy Partners II which provides exclusive rights to the Company's technology for use in the field, as a result of which the Company received a technology access fee of \$18,000 while retaining a 50% membership interest in Intrexon Energy Partners II. The IEPII Investors made initial capital contributions, totaling \$18,000 in the aggregate, in exchange for pro rata membership interests in Intrexon Energy Partners II totaling 50%. In December 2015, the owners of Intrexon Energy Partners II made a capital contribution of \$4,000, half of which was paid by the Company. Intrexon has committed to make additional capital contributions of up to \$10,000, and the IEPII Investors, as a group and pro rata in accordance with their respective membership interests in Intrexon Energy Partners II, have committed to make additional capital contributions of up to \$10,000, at the request of Intrexon Energy Partners II's board of managers (the "Intrexon Energy Partners II Board") and subject to certain limitations. Intrexon Energy Partners II is governed by the Intrexon Energy Partners II Board which has five members. One member of the Intrexon Energy Partners II Board is designated by the Company and four members are designated by a majority of the IEPII Investors. The Company and the IEPII Investors have the right, but not the obligation, to make additional capital contributions above the initial limits when and if solicited by the Intrexon Energy Partners II Board.

The Company's investment in Intrexon Energy Partners II was \$515 and \$572 as of March 31, 2018 and December 31, 2017, respectively, and is included in investments in affiliates in the accompanying consolidated balance sheets.

EnviroFlight

In February 2016, the Company entered into a series of transactions involving EnviroFlight, LLC ("Old EnviroFlight"), Darling Ingredients Inc. ("Darling") and a newly formed venture between the Company and Darling ("New EnviroFlight"). New EnviroFlight was formed to generate high-nutrition, low environmental impact animal and fish feed, as well as fertilizer products, from black soldier fly larvae. Through March 31, 2018, both the Company

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and Darling have made subsequent capital contributions of \$8,250.

The Company's investment in New EnviroFlight was \$10,072 and \$7,092 as of March 31, 2018 and December 31, 2017, respectively, and is included in investments in affiliates in the accompanying consolidated balance sheets.

Table of Contents**Intrexon T1D Partners**

In March 2016, the Company and certain investors (the "T1D Investors"), including affiliates of Third Security, entered into a Limited Liability Company Agreement which governs the affairs and conduct of business of Intrexon T1D Partners, LLC ("Intrexon T1D Partners"), a joint venture formed to utilize the Company's proprietary ActoBiotics platform to develop and commercialize products to treat type 1 diabetes. The Company also entered into an ECC with Intrexon T1D Partners which provides the exclusive rights to the Company's technology for use in the field, as a result of which the Company received a technology access fee of \$10,000 while retaining a 50% membership interest in Intrexon T1D Partners. The T1D Investors made initial capital contributions, totaling \$10,000 in the aggregate, in exchange for pro rata membership interests in Intrexon T1D Partners totaling 50%. Intrexon has committed to make capital contributions of up to \$5,000, and the T1D Investors, as a group and pro rata in accordance with their respective membership interests in Intrexon T1D Partners, have committed to make additional capital contributions of up to \$5,000, at the request of Intrexon T1D Partners' board of managers (the "Intrexon T1D Partners Board") and subject to certain limitations. As of March 31, 2018, the Company's remaining commitment was \$1,250. Intrexon T1D Partners is governed by the Intrexon T1D Partners Board, which has five members. Two members of the Intrexon T1D Partners Board are designated by the Company and three members are designated by a majority of the T1D Investors. The Company and the T1D Investors have the right, but not the obligation, to make additional capital contributions above these limits when and if solicited by the Intrexon T1D Partners Board.

The Company's investment in Intrexon T1D Partners was \$(67) and \$(943) as of March 31, 2018 and December 31, 2017, respectively, and is included in other accrued liabilities in the accompanying consolidated balance sheets.

6. Collaboration and Licensing Revenue

The Company's collaborations and licensing agreements provide for multiple promises to be satisfied by the Company and typically include a license to the Company's technology platforms, participation in collaboration committees, and performance of certain research and development services. Based on the nature of the promises in the Company's collaboration and licensing agreements, the Company typically combines most of its promises into a single performance obligation because the promises are highly interrelated and not individually distinct. At contract inception, the transaction price is typically the upfront payment received and is allocated to the single performance obligation. The Company has determined the transaction price should be recognized as revenue based on its measure of progress under the agreement primarily based on inputs necessary to fulfill the performance obligation.

The Company recognizes the reimbursement payments received for research and development services in the period when the services are performed. At inception of each collaboration, the Company determines whether any milestone payments are probable and can be included in the transaction price. The milestone payments are typically not considered probable at inception and are therefore constrained under ASC 606. Royalties related to product sales will be recognized when sales have occurred since the royalties relate directly to the technology license granted in the agreement.

See Note 3 for additional discussion of the Company's revenue recognition policy related to collaboration and licensing payments.

The Company determines whether collaborations and licensing agreements are individually significant for disclosure based on a number of factors, including total revenue recorded by the Company pursuant to collaboration and licensing agreements, collaborators or licensees with either majority-owned subsidiaries or equity method investments, or other qualitative factors. Collaboration and licensing revenues generated from consolidated subsidiaries are eliminated in consolidation. Amounts for periods subsequent to January 1, 2018 reflect revenue recognition under ASC 606.

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The following tables summarize the amounts recorded as revenue in the consolidated statements of operations for each significant counterparty to a collaboration or licensing agreement for the three months ended March 31, 2018 and 2017.

	Three Months	
	Ended	
	March 31,	
	2018	
	(As 2017	
	Restated)	
ZIOPHARM Oncology, Inc.	\$5,377	\$10,985
Oragenics, Inc.	125	569
Fibrocell Science, Inc.	293	1,739
Genopaver, LLC	1,315	1,680
S & I Ophthalmic, LLC	—	303
OvaXon, LLC	—	824
Intrexon Energy Partners, LLC	1,197	5,086
Persea Bio, LLC	209	289
Ares Trading S.A.	2,423	3,315
Intrexon Energy Partners II, LLC	378	1,149
Intrexon T1D Partners, LLC	1,328	1,132
Harvest start-up entities (1)	3,197	3,363
Other	4,006	2,631
Total	\$19,848	\$33,065

For the three months ended March 31, 2018 and 2017, revenue recognized from collaborations with Harvest start-up entities include Thrive Agrobiotics, Inc.; Exotech Bio, Inc.; AD Skincare, Inc.; Genten Therapeutics, Inc.; (1) and CRS Bio, Inc. For the three months ended March 31, 2017, revenue recognized from collaborations with Harvest start-up entities also includes Relieve Genetics, Inc.

Other than the termination of the OvaScience ECC in March 2018 (Note 5), there have been no significant changes to arrangements with our collaborators and licensees in the three months ended March 31, 2018. See Note 5 in the Company's Annual Report on Form 10-K for the year ended December 31, 2017 for additional details of the Company's existing collaboration and licensing agreements.

Deferred Revenue

Deferred revenue primarily consists of consideration received for the Company's collaborations and licensing agreements and prepayments for product and service revenues. Deferred revenue consists of the following:

	March 31,	
	2018	December 31,
	(As 2017	
	Restated)	
Collaboration and licensing agreements	\$195,478	\$ 231,583
Prepaid product and service revenues	5,138	4,681
Other	78	133
Total	\$200,694	\$ 236,397
Current portion of deferred revenue	\$38,376	\$ 42,870
Long-term portion of deferred revenue	162,318	193,527
Total	\$200,694	\$ 236,397

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The following table summarizes the remaining balance of deferred revenue associated with upfront and milestone payments for each significant collaboration and licensing agreement as of March 31, 2018 and December 31, 2017, including the estimated remaining performance period as of March 31, 2018.

	Average Remaining Performance Period (Years)	March 31, 2018 (As Restated)	December 31, 2017
ZIOPHARM Oncology, Inc.	5.8	\$ 55,210	\$ 90,496
Oragenics, Inc.	6.2	6,819	6,719
Fibrocell Science, Inc.	6.6	18,258	16,607
Genopaver, LLC	6.0	1,468	1,704
Intrexon Energy Partners, LLC	6.0	14,184	15,625
Persea Bio, LLC	6.8	3,046	3,500
Ares Trading S.A.	6.1	39,699	40,789
Intrexon Energy Partners II, LLC	6.7	15,552	13,833
Intrexon T1D Partners, LLC	7.0	9,665	8,435
Harvest start-up entities (1)	7.1	19,162	18,400
Other	3.7	11,537	14,423
Total		\$ 194,600	\$ 230,531

As of March 31, 2018 and December 31, 2017, the balance of deferred revenue for collaborations with Harvest (1) start-up entities includes Thrive Agrobiotics, Inc.; Exotech Bio, Inc.; Relieve Genetics, Inc.; AD Skincare, Inc.; Genten Therapeutics, Inc.; and CRS Bio, Inc.

7. Short-term Investments

The Company's investments are classified as available-for-sale. The following table summarizes the amortized cost, gross unrealized gains and losses, and fair value of available-for-sale investments as of March 31, 2018:

Amortized Cost	Gross Gains	Gross Losses	Aggregate Fair Value
Certificates of deposit \$ 275	\$ —	—\$ 275	

The following table summarizes the amortized cost, gross unrealized gains and losses, and fair value of available-for-sale investments as of December 31, 2017:

Amortized Cost	Gross Gains	Gross Losses	Aggregate Fair Value
U.S. government debt securities \$ 6,000	\$ —	—\$ (2)	\$ 5,998
Certificates of deposit 275	—	—	275
Total	\$ 6,275	\$ —	—\$ (2) \$ 6,273

For more information on the Company's method for determining the fair value of its assets, see Note 2 – "Fair Value of Financial Instruments" in the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

As of March 31, 2018, all of the available-for-sale investments were due within one year based on their contractual maturities.

Changes in market interest rates and bond yields cause certain investments to fall below their cost basis, resulting in unrealized losses on investments. The unrealized losses of the Company's investments were primarily a result of unfavorable changes in interest rates subsequent to the initial purchase of these investments and there were none as of March 31, 2018.

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As of March 31, 2018 and December 31, 2017, the Company did not consider any of its investments to be other-than-temporarily impaired. When evaluating its investments for other-than-temporary impairment, the Company reviews factors such as the length of time and extent to which fair value has been below its cost basis, the financial condition of the issuer, the Company's ability and intent to hold the security and whether it is more likely than not that it will be required to sell the investment before recovery of its cost basis.

8. Investments in Preferred Stock

Investment in ZIOPHARM Preferred Stock

In June 2016, the Company received 100,000 shares of Series 1 Preferred Stock (the "Preferred Shares") of ZIOPHARM, a related party, with a per share stated value of \$1,200, as consideration for amending their two previously existing ECC agreements. A summary of the terms of the Preferred Shares follows.

Conversion. The Preferred Shares shall automatically convert into shares of ZIOPHARM common stock upon the date the first approval in the United States of (i) a ZIOPHARM product, as defined in and developed under one of the ECC agreements, or (ii) a product, as defined and developed under the License and Collaboration Agreement with Ares Trading S.A. and ZIOPHARM, is publicly announced (the "Conversion Event Date"). The Preferred Shares shall convert into a number of shares of ZIOPHARM common stock equal to the stated value of such Preferred Share, divided by the greater of: (i) the volume weighted average closing price of ZIOPHARM's common stock over the twenty trading days ending on the Conversion Event Date or (ii) \$1.00. The number of converted shares is subject to certain limitations defined in the amended and restated Certificate of Designation, Preferences, and Rights of Series 1 Preferred Stock (the "A&R Certificate of Designation").

Dividend Rights. The Company shall receive a monthly dividend, payable in additional Preferred Shares, equal to \$12.00 per Preferred Share held per month divided by the stated value of the Preferred Shares, which is referred to as the PIK Dividend. For any Preferred Shares that are not converted on the Conversion Event Date, the rate of PIK Dividend on these unconverted Preferred Shares will automatically increase from \$12.00 to \$24.00 per Preferred Share per month.

Voting Rights. The Preferred Shares do not have any voting rights except for certain protective voting rights defined in the A&R Certificate of Designation.

Liquidation Rights. In the event of any voluntary or involuntary liquidation, dissolution or winding up of ZIOPHARM or a deemed liquidation event, as defined in the A&R Certificate of Designation, including a change of control or the sale, lease transfer, or exclusive license of all or substantially all of ZIOPHARM's assets, the holders of the Preferred Shares shall be entitled to receive a portion of all funds to be distributed in proportion to the holders' proportionate share of ZIOPHARM's common stock on an as-converted to common stock basis (the "Series 1 Liquidation Amount"). For purposes of calculating the Series 1 Liquidation Amount, if such liquidation event occurs prior to the Conversion Event Date, each Preferred Share shall be deemed to be convertible into the number of shares of ZIOPHARM's common stock equal to (i) the stated value of each Preferred Share, divided by (ii) the volume weighted average price of ZIOPHARM's common stock for the twenty day period ending on the date of the public announcement of the liquidation event. In addition, ZIOPHARM may elect to redeem the Preferred Shares in connection with or following a deemed liquidation event at a price per share equal to the Series 1 Liquidation Amount.

The investment in ZIOPHARM preferred stock is categorized as Level 3 as there are significant unobservable inputs and the Preferred Shares are not traded on a public exchange. The fair value of the investment in ZIOPHARM preferred stock is estimated using a probability-weighted expected return ("PWERM") model. The key inputs used in the PWERM model are (i) estimating the future returns for conversion of the Preferred Shares for both product approval and a change in control of ZIOPHARM (the "conversion events") using market data of the change in value for guideline companies as a result of these conversion events; (ii) estimating the expected date and likelihood of each conversion event; and (iii) discounting these estimated future returns using a discount rate for the Preferred Shares considering industry debt issuances originated by public funds and venture capital rates of return. A significant change in unobservable inputs discussed above could result in a significant impact on the fair value of the Company's investment in ZIOPHARM preferred stock. The fair value of the Company's investment in ZIOPHARM preferred stock, including additional Preferred Shares received as dividends, was \$165,703 and \$160,832 as of March 31, 2018

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and December 31, 2017, respectively. During the three months ended March 31, 2018 and 2017, the Company received 3,624 shares and 3,216 shares, respectively, of additional Preferred Shares and recognized \$4,871 and \$3,923, respectively, of dividend income in the accompanying consolidated statements of operations.

Table of Contents**Investment in Fibrocell Preferred Stock**

In March 2017, Fibrocell Science, Inc. ("Fibrocell"), one of the Company's collaborators and a related party, sold Series A Convertible Preferred Stock (the "Convertible Preferred Shares") convertible into shares of Fibrocell common stock and warrants to purchase shares of Fibrocell common stock to certain institutional and accredited investors, including the Company and affiliates of Third Security. The Company paid \$1,161 in exchange for 1,161 Convertible Preferred Shares and warrants to acquire 498,843 shares of Fibrocell common stock. The Convertible Preferred Shares are convertible at any time at the election of the Company and accrue dividends at 4% per annum, compounded quarterly, increasing the stated value of the shares. The investment in Fibrocell preferred stock is categorized as Level 3 as there are significant unobservable inputs and the Convertible Preferred Shares are not traded on a public exchange. The fair value of the investment in Fibrocell preferred stock is estimated using a conversion plus dividend approach utilizing the trading value of the underlying common stock and an estimated premium for the preferred stock dividend and other preferences. Market price volatility of Fibrocell's common stock and a significant change in the estimated preferred stock premium could result in a significant impact to the fair value of the investment in Fibrocell preferred stock. As of March 31, 2018 and December 31, 2017, the fair value of the Company's investment in Fibrocell preferred stock totaled \$366 and \$393, respectively. See Note 18 for additional discussion of the warrants.

Investment in Oragenics Preferred Stock

In November 2017, concurrent with Oragenics closing a preferred stock private placement, the Company exchanged a promissory note, including accrued interest, purchased from Oragenics in May 2017 and receivables due from Oragenics totaling \$3,385 for Oragenics Series C preferred stock ("Series C Preferred Stock"). The Series C Preferred Stock is non-voting and non-convertible and is redeemable in whole or part at any time by Oragenics in cash. The Series C Preferred Stock accrues an annual 12% dividend payable in additional Series C Preferred Stock through May 10, 2019, and after such date, the annual dividend increases to 20%. Additionally, the Company and Oragenics amended certain future payment terms under its ECCs, as discussed in Note 5 of the Company's Annual Report on Form 10-K for the year ended December 31, 2017. As of March 31, 2018 and December 31, 2017, based on the most recent financial information available on Oragenics, the Company concluded that there was no value to its investment in Oragenics preferred stock.

Changes in the Fair Value of Investments in Preferred Stock

The following table summarizes the changes in the Level 3 investments in preferred stock during the three months ended March 31, 2018.

	Three Months Ended March 31, 2018
Beginning balance	\$ 161,225
Dividend income from investments in preferred stock	4,883
Net unrealized depreciation in the fair value of the investments in preferred stock	(39)
Ending balance	\$ 166,069

9. Fair Value Measurements

The carrying amount of cash and cash equivalents, restricted cash, receivables, prepaid expenses and other current assets, accounts payable, accrued compensation and benefits, other accrued liabilities, and related party payables approximate fair value due to the short maturity of these instruments.

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The following table presents the placement in the fair value hierarchy of financial assets that are measured at fair value on a recurring basis, including the items for which the fair value option has been elected, at March 31, 2018:

	Quoted Prices in Active Markets	Significant Other Observable Inputs	Significant Unobservable Inputs	March 31, 2018
	(Level 1)	(Level 2)	(Level 3)	
Assets				
Equity securities	9,622	4,421	—	14,043
Preferred stock	—	—	166,069	166,069
Other	—	769	—	769
Total	\$ 9,622	\$ 5,190	\$ 166,069	\$ 180,881

The following table presents the placement in the fair value hierarchy of financial assets that are measured at fair value on a recurring basis, including the items for which the fair value option has been elected, at December 31, 2017:

	Quoted Prices in Active Markets	Significant Other Observable Inputs	Significant Unobservable Inputs	December 31, 2017
	(Level 1)	(Level 2)	(Level 3)	
Assets				
U.S. government debt securities	\$—	\$ 5,998	\$ —	\$ 5,998
Equity securities	10,537	4,563	—	15,100
Preferred stock	—	—	161,225	161,225
Other	—	850	—	850
Total	\$ 10,537	\$ 11,411	\$ 161,225	\$ 183,173

The method used to estimate the fair value of the Level 1 assets in the tables above is based on observable market data as these equity securities are publicly-traded. The method used to estimate the fair value of the Level 2 short-term investments in the tables above is based on professional pricing sources for identical or comparable instruments, rather than direct observations of quoted prices in active markets. The method used to estimate the fair value of the Level 2 equity securities in the tables above is based on the quoted market price of the publicly-traded security, adjusted for a discount for lack of marketability. The methods used to estimate the fair value of the Level 3 assets are discussed in Note 8.

There were no transfers between levels of the fair value hierarchy during the three months ended March 31, 2018. The carrying values of the Company's long term debt approximates fair value due to the length of time to maturity and/or the existence of interest rates that approximate prevailing market rates. The Company's contingent consideration liabilities from previous acquisitions are measured on a recurring basis and were \$585 at March 31, 2018 and December 31, 2017. These fair value measurements were based on significant inputs not observable in the market and thus represented a Level 3 measurement. A significant change in unobservable inputs could result in a significant impact on the fair value of the Company's contingent consideration liabilities. The contingent consideration liabilities are remeasured to fair value at each reporting date until the contingencies are resolved, and those changes in fair value are recognized in earnings. There were no changes in the fair value of the Level 3 liabilities during the three months ended March 31, 2018.

10. Inventory

Inventory consists of the following:

	March 31, 2018	December 31, 2017
Supplies, embryos and other production materials	\$ 3,386	\$ 2,673
Work in process	4,422	4,767
Livestock	10,991	11,040
Feed	1,472	2,013
Total inventory	\$ 20,271	\$ 20,493

11. Property, Plant and Equipment, Net

Property, plant and equipment consist of the following:

	March 31, 2018	December 31, 2017
Land and land improvements	\$11,815	\$ 11,767
Buildings and building improvements	18,160	18,183
Furniture and fixtures	2,516	2,515
Equipment	69,568	65,863
Leasehold improvements	27,811	25,277
Breeding stock	4,204	3,832
Computer hardware and software	10,442	10,128
Trees	7,996	6,642
Construction and other assets in progress	15,819	14,113
	168,331	158,320
Less: Accumulated depreciation and amortization	(49,087)	(45,646)
Property, plant and equipment, net	\$119,244	\$ 112,674

Depreciation expense was \$3,456 and \$2,782 for the three months ended March 31, 2018 and 2017, respectively.

12. Goodwill and Intangible Assets, Net

The changes in the carrying amount of goodwill for the three months ended March 31, 2018 are as follows:

Balance at December 31, 2017	\$ 153,289
Foreign currency translation adjustments	1,459
Balance at March 31, 2018	\$ 154,748

The Company had \$13,823 of accumulated impairment losses as of March 31, 2018 and December 31, 2017.

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Intangible assets consist of the following as of March 31, 2018:

	Gross Carrying Amount	Accumulated Amortization	Net
Patents, developed technologies and know-how	\$ 266,579	\$ (48,586)	) \$ 217,993
Customer relationships	10,700	(6,733)	) 3,967
Trademarks	6,800	(2,760)	) 4,040
In-process research and development	5,883	—	5,883
Total	\$ 289,962	\$ (58,079)	) \$ 231,883

Intangible assets consist of the following as of December 31, 2017:

	Gross Carrying Amount	Accumulated Amortization	Net
Patents, developed technologies and know-how	\$ 263,615	\$ (44,954)	) \$ 218,661
Customer relationships	10,700	(6,383)	) 4,317
Trademarks	6,800	(2,567)	) 4,233
In-process research and development	5,666	—	5,666
Total	\$ 286,781	\$ (53,904)	) \$ 232,877

The balance of in-process research and development includes certain in-process research and development technology acquired

in the Company's acquisition of Oxitec in September 2015, and amortization will begin once certain regulatory approvals have

been obtained for the in-process programs.

Amortization expense was \$4,926 and \$4,618 for the three months ended March 31, 2018 and 2017, respectively.

13. Lines of Credit and Long Term Debt

Lines of Credit

Trans Ova has a \$5,000 revolving line of credit with First National Bank of Omaha which matures on June 1, 2018. The line of credit bears interest at the greater of 2.95% above the London Interbank Offered Rate or 3.00% and the actual rate was 4.62% as of March 31, 2018. As of March 31, 2018, there was no outstanding balance. The amount available under the line of credit is based on eligible accounts receivable and inventory up to the maximum principal amount. The line of credit is collateralized by certain of Trans Ova's assets and contains certain restricted covenants that include maintaining minimum tangible net worth and working capital and maximum allowable annual capital expenditures. Trans Ova was in compliance with these covenants as of March 31, 2018.

Exemplar has a \$700 revolving line of credit with American State Bank which matures on October 30, 2018. The line of credit bears interest at 5.25% per annum. As of March 31, 2018, there was an outstanding balance of \$321.

Long Term Debt

Long term debt consists of the following:

	March 31, 2018	December 31, 2017
Notes payable	\$ 4,896	\$ 5,010
Royalty-based financing	2,108	2,132
Other	922	895
Long term debt	7,926	8,037
Less current portion	501	502
Long term debt, less current portion	\$ 7,425	\$ 7,535

Trans Ova has a note payable to American State Bank which matures in April 2033 and has an outstanding principal balance of \$4,775 as of March 31, 2018. Trans Ova pays monthly installments of \$39, which includes interest at 3.95%. The note payable is collateralized by certain of Trans Ova's real estate and non-real estate assets.

AquaBounty has a royalty-based financing grant from the Atlantic Canada Opportunities Agency, a Canadian government agency, to provide funding of a research and development project. The total amount available under the award was \$2,226, which AquaBounty claimed over a five year period. All amounts claimed by AquaBounty must be repaid in the form of a 10% royalty on any products commercialized out of this research and development project until fully paid. Because the timing of commercialization is subject to additional regulatory considerations, the timing of repayment is uncertain. As of the date of the acquisition by Intrexon in March 2013, AquaBounty had claimed \$1,952 of the available funds and this amount was recorded at its acquisition date fair value of \$1,107. The Company accretes the difference of \$845 between the face value of amounts drawn and the acquisition date fair value over the expected period of repayment. Subsequent to the acquisition date, AquaBounty claimed the remaining balance available under the grant, resulting in total long term debt of \$2,108 as of March 31, 2018.

Future maturities of long term debt are as follows:

2018	\$398
2019	411
2020	382
2021	830
2022	373
2023	386
Thereafter	3,038
Total	\$5,818

The AquaBounty royalty-based financing grant is not included in the table above due to the uncertainty of the timing of repayment.

14. Income Taxes

Tax provisions for interim periods are calculated using an estimate of actual taxable income or loss for the respective period, rather than estimating the Company's annual effective income tax rate, as the Company is currently unable to reliably estimate its income for the full year. For the three months ended March 31, 2018, the Company had U.S. taxable loss of approximately \$35,100 and recorded \$113 of current domestic income tax expense. For the three months ended March 31, 2018, the Company recognized \$125 of current foreign income tax benefit. For the three months ended March 31, 2017, the Company had U.S. taxable income of approximately \$11,800 and recorded \$236 of current domestic income tax expense. For the three months ended March 31, 2017, the Company recognized \$131 of current foreign income tax benefit. For the three months ended March 31, 2018, the Company recorded deferred tax benefit of \$4,074. For the three months ended March 31, 2017, the Company recorded deferred tax benefit of \$638. The Company's net deferred tax assets, excluding certain deferred tax liabilities totaling \$11,631, are offset by a valuation allowance due to the Company's history of net losses combined with an inability to confirm

recovery of the tax benefits of the Company's losses and other net deferred tax assets. In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Management considers the scheduled reversal of deferred tax liabilities, projected future taxable income and tax planning strategies in making this assessment.

As of March 31, 2018, the Company has loss carryforwards for U.S. federal income tax purposes of approximately \$279,500 available to offset future taxable income, and federal and state research and development tax credits of approximately \$7,800, prior to consideration of annual limitations that may be imposed under Section 382 of the Internal Revenue Code of 1986, as amended. These carryforwards will begin to expire in 2022. As of March 31, 2018, the Company's direct foreign subsidiaries have foreign loss carryforwards of approximately \$160,700, most of which do not expire.

In 2017, the Company recorded a net provisional income tax benefit upon enactment of the Tax Act. The Company has provisionally estimated its transition tax exposure to be zero, as any accumulated earnings in foreign subsidiaries are offset by accumulated deficits in other foreign subsidiaries. The provisional amounts recorded are subject to further refinement within the measurement period prescribed by SAB 118. As a result, the recorded amounts are subject to change, possibly materially, due to, among other things, changes in interpretations of the Tax Act, any legislative action to address questions that arise because of the Tax Act, any changes in accounting standards for income taxes or related interpretations in response to the Tax Act, or any updates or changes to estimates the Company utilized to provisionally compute the transition impact. No adjustments to these provisional amounts were recorded during the three months ended March 31, 2018.

15. Shareholders' Equity

Issuances of Common Stock

In January 2018, Intrexon closed a public offering of 6,900,000 shares of its common stock, including 1,000,000 shares of common stock purchased by affiliates of Third Security. The net proceeds of the offering were \$82,374, after deducting underwriting discounts of \$3,688 and offering expenses of \$188, all of which were capitalized.

Components of Accumulated Other Comprehensive Loss

The components of accumulated other comprehensive loss are as follows:

	March 31,	December 31,
	2018	2017
	(As Restated)	
Unrealized loss on investments	\$—	\$ (2)
Loss on foreign currency translation adjustments	(9,737)	(15,552)
Total accumulated other comprehensive loss	\$(9,737)	\$ (15,554)

16. Share-Based Payments

The Company records the fair value of stock options and restricted stock units ("RSUs") issued to employees and non-employees as of the grant date as stock-based compensation expense. Stock-based compensation expense for employees and non-employees is recognized over the requisite service period, which is typically the vesting period. Stock-based compensation costs included in the consolidated statements of operations are presented below:

	Three Months Ended	
	March 31,	2017
	2018	2017
Cost of products	\$25	\$26
Cost of services	77	78
Research and development	3,258	2,193
Selling, general and administrative	8,002	5,597
Total	\$11,362	\$ 7,894

Intrexon Stock Option Plans

In April 2008, Intrexon adopted the 2008 Equity Incentive Plan (the "2008 Plan") for employees and nonemployees pursuant to which Intrexon's board of directors granted share based awards, including stock options, to officers, key employees and nonemployees. Upon the effectiveness of the 2013 Omnibus Incentive Plan (the "2013 Plan"), no new awards may be granted under the 2008 Plan. As of March 31, 2018, there were 431,649 stock options outstanding under the 2008 Plan.

Intrexon adopted the 2013 Plan for employees and nonemployees pursuant to which Intrexon's board of directors may grant share based awards, including stock options and shares of common stock, to employees, officers, consultants, advisors, and nonemployee directors. The 2013 Plan became effective upon the closing of the Company's initial public offering in August 2013, and as of March 31, 2018, there were 18,000,000 shares authorized for issuance under the 2013 Plan, of which 11,114,785 stock options and 1,052,182 RSUs were outstanding and 3,279,291 shares were available for grant. In March 2018, Intrexon's board of directors approved, subject to shareholder approval at Intrexon's annual meeting in June 2018, an increase of 2,000,000 shares of common stock to be reserved for issuance under the 2013 Plan.

Stock option activity was as follows:

	Number of Shares	Average Exercise Price	Weighted Average Remaining Contractual Term (Years)
Balances at December 31, 2017	11,382,747	\$ 28.99	7.32
Granted	656,339	14.84	
Exercised	(21,722)	(3.40)	
Forfeited	(186,811)	(26.37)	
Expired	(284,119)	(27.67)	
Balances at March 31, 2018	11,546,434	28.31	7.25
Exercisable at March 31, 2018	6,533,996	29.29	6.38

During the three months ended March 31, 2018, Intrexon granted 1,059,126 RSUs with a weighted average grant date fair value of \$13.83 per share, of which 1,052,182 remain outstanding and unvested as of March 31, 2018.

Intrexon currently uses authorized and unissued shares to satisfy share award exercises.

In October 2015, the compensation committee and the independent members of Intrexon's board of directors approved a compensation arrangement whereby the Company's Chief Executive Officer ("CEO") would receive a monthly salary. Previously, the CEO did not receive compensation for his services as an employee of the Company other than through his participation in the Company's Annual Executive Incentive Plan which became effective January 1, 2015. Pursuant to the compensation agreement, the CEO receives a base salary of \$200 per month payable in fully vested shares of Intrexon common stock with such shares subject to a three-year lock-up on resale. The monthly number of shares of common stock is calculated based on the closing price on the last trading day of each month and the shares are issued pursuant to the terms of a Restricted Stock Unit Agreement ("RSU Agreement") which was executed between Intrexon and the CEO pursuant to the terms of the 2013 Plan. The RSU Agreement became effective in November 2015, and had an initial term of twelve months. The independent members of Intrexon's board of directors, with the recommendation of the compensation committee of the board of directors, subsequently approved extensions of the RSU Agreement through March 31, 2019, all of which are on the same terms as the original RSU Agreement. The fair value of the shares issued as compensation for services is included in selling, general and administrative expenses in the Company's consolidated statements of operations and totaled \$486 and \$471 for the three months ended March 31, 2018 and 2017, respectively.

AquaBounty Stock Option Plans

In March 2016, AquaBounty's board of directors adopted the AquaBounty 2016 Equity Incentive Plan ("AquaBounty 2016 Plan") to replace the AquaBounty 2006 Equity Incentive Plan ("AquaBounty 2006 Plan"). The AquaBounty 2016 Plan provides for the issuance of incentive stock options, non-qualified stock options and awards of restricted and direct stock purchases to directors, officers, employees, and consultants of AquaBounty. The AquaBounty 2016

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Plan was approved by AquaBounty's shareholders at its annual meeting in April 2016. Upon the effectiveness of the AquaBounty 2016 Plan, no new awards may be granted under the AquaBounty 2006 Plan.

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As of March 31, 2018, there were 340,764 options outstanding under both AquaBounty plans, of which 207,390 were exercisable, at a weighted average exercise price of \$7.09 per share.

17. Commitments and Contingencies

Operating Leases

The Company leases certain facilities and equipment under noncancelable operating leases. The equipment leases are renewable at the option of the Company. At March 31, 2018, future minimum lease payments under operating leases having initial or remaining noncancelable lease terms in excess of one year are as follows:

2018	\$6,096
2019	9,441
2020	9,506
2021	8,601
2022	7,595
2023	6,558
Thereafter	23,923
Total	\$71,720

Rent expense, including other facility expenses, was \$3,259 and \$2,301 for the three months ended March 31, 2018 and 2017, respectively.

Purchase Commitments

As of March 31, 2018, the Company had outstanding contractual purchase commitments of \$15,098, which primarily relate to amounts that will be paid in 2018, 2019, and 2020 upon delivery of commercial non-browning apple trees.

Contingencies

In March 2012, Trans Ova was named as a defendant in a licensing and patent infringement suit brought by XY, LLC ("XY") alleging that certain of Trans Ova's activities breached a 2004 licensing agreement and infringed on patents that XY allegedly owned. Trans Ova filed a number of counterclaims in the case. In Colorado District Court, the matter proceeded to a jury trial in January 2016. The jury determined that XY and Trans Ova had each breached the licensing agreement and that Trans Ova had infringed XY's patents. In April 2016, the court issued its post-trial order, awarding \$528 in damages to Trans Ova and \$6,066 in damages to XY. The order also provided Trans Ova with a compulsory license to XY's technology, subject to an ongoing royalty obligation. Both parties appealed the court's order, which appeal is pending before the Court of Appeals for the Federal Circuit. Since the inception of the 2004 agreement, Trans Ova has remitted payments to XY pursuant to the terms of that agreement, or pursuant to the terms of the April 2016 court order, and has recorded these payments in cost of services in the consolidated statements of operations for the respective periods. For the period from inception of the 2004 agreement through the court's April 2016 order, aggregate royalty and license payments were \$3,170, of which \$2,759 had not yet been deposited by XY. In 2016, the Company recorded expense of \$4,228 representing the excess of the net damages awarded to XY, including prejudgment interest, over the liability previously recorded by Trans Ova for uncashed checks previously remitted to XY. In August 2016, Trans Ova deposited the net damages amount, including prejudgment interest, into the court's treasury, to be held until the appeals process is complete and final judgment amounts are determined. As of March 31, 2018, this amount is included in restricted cash on the accompanying consolidated balance sheet. In December 2016, Trans Ova elected to void the outstanding checks discussed above, and these amounts have been reclassified to other accrued liabilities on the accompanying consolidated balance sheets as of March 31, 2018 and December 31, 2017. Depending on the outcome of an appeal decision, the damages awarded to either party could decrease, increase, or be eliminated. The appeal decision may also remand to the Colorado District Court all, or a portion, of the issues being appealed. In December 2016, XY filed a complaint for patent infringement and trade secret misappropriation against Trans Ova in the District Court of Waco, Texas. Since the claims in this 2016 complaint directly relate to the 2012 licensing dispute and patent issues, Trans Ova filed and was granted a motion for change of venue to Colorado District Court. Trans Ova also filed a motion to dismiss, from which the Court recently dismissed nine of the twelve counts of the complaint. Presently, three counts for patent infringement remain pending. Trans Ova and the Company could elect to enter into a settlement agreement in order to avoid the further costs and uncertainties of litigation, to modify the court-ordered license to XY's technologies, or to recover monetary damages

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stemming from Trans Ova's counterclaims for antitrust violations by XY and its parent company, Inguran.

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In June and July 2016, two shareholders made separate demands under Virginia law demanding that the Company file suit against certain of its current officers and directors for alleged breaches of fiduciary duty and other claims. The demands were based upon and asserted the allegations contained in a report published in April 2016 on the Seeking Alpha financial blog. In July 2016, the Company's board of directors authorized its Special Litigation Committee ("SLC"), consisting of independent directors, to investigate the claims and allegations made in the two shareholder demands and to decide on behalf of the Company whether the claims and allegations should be pursued. In February 2017, the SLC completed its review and evaluation and unanimously determined that there was no basis for any of the allegations, that the Company's officers and directors did not breach their fiduciary duties or any other applicable law, and that prosecution of the asserted claims was not in the best interest of Intrexon or its shareholders.

Following the SLC's determination, in March 2017, a derivative complaint captioned Luger v. Kirk et al. was filed in the Circuit Court of Fairfax County, Virginia, alleging causes of action for breaches of fiduciary duty and unjust enrichment relating to the same allegations investigated by the SLC. On April 4, 2018, the plaintiff filed a motion to nonsuit, which the court granted without prejudice on April 13, 2018.

The Division of Enforcement of the SEC is conducting an investigation which the Company believes concerns certain issues raised by the foregoing and by the previously disclosed consolidated putative shareholder class action lawsuit, captioned Intrexon Corporation Securities Litigation, that was dismissed on November 1, 2017 and the previously disclosed shareholder derivative action captioned Basile v. Kirk et al. that was dismissed on January 25, 2018. The Company has met with the SEC staff and is voluntarily cooperating with their investigation. The Company's board of directors has authorized the SLC to monitor the Company's interaction with the SEC staff.

The Company may become subject to other claims and assessments from time to time in the ordinary course of business. Such matters are subject to many uncertainties and outcomes are not predictable with assurance. The Company accrues liabilities for such matters when it is probable that future expenditures will be made and such expenditures can be reasonably estimated. As of March 31, 2018 and December 31, 2017, the Company does not believe that any such matters, individually or in the aggregate, will have a material adverse effect on the Company's business, financial condition, results of operations, or cash flows.

18. Related Party Transactions

Third Security and Affiliates

The Company's CEO and Chairman of the board of directors is also the Senior Managing Director and CEO of Third Security and owns 100% of the equity interests of Third Security. In November 2015, the independent members of Intrexon's board of directors, with the recommendation of the audit committee of the board of directors, approved the execution of a Services Agreement ("Services Agreement") with Third Security pursuant to which Third Security provides the Company with certain professional, legal, financial, administrative, and other support services necessary to support the Company and its CEO. As consideration for providing these services, Third Security is entitled to a fee of \$800 per month to be paid in the form of fully-vested shares of the Company's common stock. The number of shares of common stock is calculated based on the closing price of the Company's common stock on the 15th day of each month. The payments made by the Company under the Services Agreement constitute, in the aggregate, an award under the 2013 Plan and are subject to the terms of the 2013 Plan (Note 16). The Services Agreement had a term of one year, can be terminated by the Company at any time, and may be extended only by agreement of the parties, including approval of a majority of the independent members of Intrexon's board of directors. The independent members of Intrexon's board of directors, with the recommendation of the audit committee of the board of directors, subsequently approved extensions of the Services Agreement through January 1, 2019. For the three months ended March 31, 2018 and 2017, the Company issued 160,626 shares and 103,930 shares, respectively, with values of \$2,041 and \$2,039, respectively, to Third Security as payment for services pursuant to the Services Agreement. In addition to the foregoing Services Agreement, the Company reimburses Third Security for certain out-of-pocket expenses incurred on the Company's behalf, and the total expenses incurred by the Company under this arrangement were \$14 and \$66 for the three months ended March 31, 2018 and 2017, respectively.

See also Note 16 regarding compensation arrangements between the Company and its CEO.

In October 2017, the Company entered into a Preferred Stock Equity Facility ("Preferred Stock Facility") with an affiliate of Third Security ("Third Security Affiliate"). Under the Preferred Stock Facility, the Company may, from

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time to time at its sole and exclusive option, issue and sell to the Third Security Affiliate, up to \$100,000 of newly issued Series A Redeemable Preferred Stock ("Series A Preferred Stock"). Any issued Series A Preferred Stock is non-voting, accrues dividends of 8% per annum and, subject to limited exceptions, is senior to Intrexon's common stock with respect to the rights to the payment of

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dividends and on parity with the common stock with respect to the distribution of assets in the event of any liquidation, dissolution or winding up or change of control of Intrexon. Any issued Series A Preferred Stock is convertible into common stock only following receipt of shareholder approval by the Company, including a majority of the shares voted by those shareholders unaffiliated with Mr. Kirk (the "Shareholder Approval"), subject to any necessary regulatory approvals. Following receipt of the Shareholder Approval and receipt of any necessary regulatory approvals, any issued Series A Preferred Stock is convertible into Intrexon common stock based on a conversion price using the 20-day volume-weighted average market price as of market closing on the fifth business day prior to the mailing of the proxy statement soliciting the Shareholder Approval, subject to adjustment for certain stock splits and similar events. The Company has agreed to take all reasonable steps necessary to seek Shareholder Approval on or before the date of its annual meeting of shareholders in 2019. Any issued Series A Preferred Stock is redeemable at the election of the Company at any time, or at the election of the Third Security Affiliate after December 31, 2020. The Preferred Stock Facility will expire on the earliest to occur of: (i) the date on which the Third Security Affiliate has purchased shares of Series A Preferred Stock in the aggregate amount of \$100,000, (ii) April 30, 2019, (iii) the date of the Shareholder Approval, and (iv) the mutual agreement of the parties. To date, the Company has not utilized the Preferred Stock Facility.

The Company also subleases certain administrative offices to Third Security. The significant terms of the lease mirror the terms of the Company's lease with the landlord, and the Company recorded sublease income of \$21 and \$11 for the three months ended March 31, 2018 and 2017, respectively.

Transactions with ECC Parties

In addition to entities controlled by Third Security, any entity in which the Company holds equity securities, including securities received as upfront or milestone consideration, and which also are party to a collaboration with the Company are considered to be related parties.

The Company holds a promissory note convertible into shares of Fibrocell common stock ("convertible note") and warrants to purchase shares of Fibrocell common stock. As of March 31, 2018 and December 31, 2017, the value of the convertible note and warrants totaled \$494 and \$575, respectively, and is included in other assets on the accompanying consolidated balance sheets. See Note 8 for additional discussion of the Company's investments in Fibrocell.

Other Related Parties

In June 2015, the Company entered into an agreement with Harvest, an investment fund sponsored by Harvest Capital Strategies, LLC, and a related party based on ownership in the fund by affiliates of Third Security. Harvest was established to invest in life science research and development start-up opportunities that the Company offered to Harvest with exclusive rights of first-look and first negotiation. Based on this agreement, Harvest established six new collaboration entities, each of which entered into an ECC with the Company in a designated field. The terms of such ECCs were negotiated between the Company and Harvest. As consideration for providing exclusive rights of first-look and first negotiation for start-up opportunities, the Company received a portion of the management fee collected by the fund sponsor of Harvest. These fees are included in other income in the accompanying consolidated statements of operations and totaled \$603 for the three months ended March 31, 2017. In September 2017, the commitment period for Harvest was terminated and, as a result, the agreement with Harvest terminated. The termination of the agreement had no effect on the existing collaborations with Harvest-controlled entities.

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19. Net Loss per Share

The following table presents the computation of basic and diluted net loss per share:

Three Months Ended
March 31,
2018
(As of 2017
Restated)

Historical net loss per share:

Numerator:

Net loss attributable to Intrexon	\$(46,165)	\$(31,399)
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Denominator:

Weighted average shares outstanding, basic and diluted	127,693,336	18,956,780
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Net loss attributable to Intrexon per share, basic and diluted	\$(0.36)	\$(0.26)
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The following potentially dilutive securities as of March 31, 2018 and 2017, have been excluded from the above computations of diluted weighted average shares outstanding for the three months then ended as they would have been anti-dilutive:

	March 31,	
	2018	2017
Options	11,546,434	12,632,507
Restricted stock units	1,052,182	—
Warrants	133,264	—
Total	12,731,880	12,632,507

20. Subsequent Events

In May 2018, the Company commenced efforts to shift certain of the manufacturing and distribution operations of Oxitec's Brazilian subsidiary to a decentralized operation and as a result, the Company anticipates one-time charges of up to approximately \$6,000 in the second quarter of 2018. These charges are comprised primarily of the costs to vacate its existing leased premises, the write-down of certain fixed assets previously used in production, and severance costs.

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

The following "Management's Discussion and Analysis of Financial Condition and Results of Operations" should be read in conjunction with the unaudited financial information and the notes thereto included in this amended Quarterly Report on Form 10-Q/A and our Annual Report on Form 10-K.

The following discussion contains forward-looking statements that reflect our plans, estimates and beliefs. Our actual results could differ materially from those discussed in the forward-looking statements and you are cautioned not to place undue reliance on forward-looking statements. Factors that could cause or contribute to these differences include those discussed below and elsewhere in this amended Quarterly Report on Form 10-Q/A, particularly in "Special Note Regarding Forward-Looking Statements" and "Risk Factors." The forward-looking statements included in this amended Quarterly Report on Form 10-Q/A are made only as of the date hereof.

The following information has been adjusted to reflect the restatement of our consolidated financial statements as described in the "Explanatory Note" at the beginning of this amended Quarterly Report on Form 10-Q/A and in Note 2, "Restatement of Consolidated Financial Statements," in Notes to the Consolidated Financial Statements (Unaudited) of this amended Quarterly Report on Form 10-Q/A.

Overview

We believe we are a leader in the field of synthetic biology, focusing on programming biological systems to alleviate disease, remediate environmental challenges, and provide sustainable food and industrial chemicals. Synthetic biology involves the tightly controlled expression of natural and engineered genes (DNA segments) in a variety of animal, plant and microorganismal hosts. Our historical approach primarily involved an exclusive channel collaboration, or ECC, model in which we served principally as the technology engine for a partner experienced in a given commercial arena. As our experience has deepened, we have moved toward more joint ventures, or JVs, and the self-development of projects we view as particularly compelling and within our increasing areas of expertise.

Synthetic biology is a rapidly evolving discipline that applies engineering principles to biological systems to enable rational, design-based control of cellular function for a specific purpose. Using our suite of proprietary and complementary technologies, we design, build and regulate gene programs, which are DNA sequences that consist of key genetic components. A single gene program or a complex, multi-genic program is fabricated and stored within a DNA vector. Vectors are segments of DNA used as a vehicle to transmit genetic information. DNA vectors can, in turn, be introduced into cells in order to generate a simple or complex cellular system, which are the basic and complex cellular activities that take place within a cell and the interaction of those systems in the greater cellular environment. It is these genetically modified cell systems that can be used to produce biological effector molecules, or be employed directly to enable the development of new and improved products and manufacturing processes across a variety of end markets, including health, food, energy, environment, and consumer. Our synthetic biology capabilities include the ability to precisely control the amount, location and modification of biological molecules to control the function and output of living cells and optimize for desired results at an industrial scale.

We believe our technologies are broadly applicable across many diverse end markets, including some end markets that have failed to recognize the applicability of synthetic biology or failed to efficiently utilize biologically-based processes to produce products. To enable us to maximize the number of these markets we could address, we devised a strategy that allowed us to focus on our core expertise in synthetic biology while developing many different commercial product candidates via collaborations in a broad range of industries or end markets. Historically, we built our business model primarily around the formation of ECCs. An ECC is an agreement with a collaborator to develop products based on technologies in a specifically defined field. We have sought collaborators with expertise within a specific industry sector and the commitment to provide resources for the commercialization of products within that industry sector. Through our ECCs, we provide expertise in the engineering of gene programs and cellular systems, and our collaborators are responsible for providing market and product development expertise, as well as sales and marketing capabilities. In addition, we have sometimes executed a research collaboration to develop an early-stage program pursuant to which we received reimbursement for our development costs but the exclusive commercial rights, and related access fees, were deferred until completion of an initial research program.

This ECC strategy has allowed us to leverage our capabilities and capital across numerous product development programs and a broader landscape of end markets than we would have been capable of addressing on our own. The

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strategy has also allowed us to participate in the potential upside from products that are enabled by our technologies across an extensive range of industries, without the need for us to invest considerable resources in bringing individual products to market. We presently are party to a number of these collaborations, which are in varying stages from research and development of product candidates to

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monitoring the progress of our collaborator in their further development and, we expect, commercialization of product candidates enabled through our collaborations.

Over time, our strategy has evolved away from ECC-type collaborations to relationships and structures that provide us with more control and ownership over the development process and commercialization path. In these new relationships and structures, we bear more of the responsibility to fund the projects and execute on product candidate development.

First, in certain strategic circumstances, we may enter into a JV with a third party collaborator whereby we may contribute access to our technology, cash or both into the JV which we will jointly control with our collaborator. Pursuant to a JV agreement, we may be required to contribute additional capital to the JV, and we may be able to receive a higher financial return than we would normally receive from an ECC to the extent that we and our collaborator are successful in developing one or more products. For a discussion of our JVs, see the "Notes to the Consolidated Financial Statements (Unaudited) - Note 5" appearing elsewhere in this amended Quarterly Report on Form 10-Q/A. Second, we are increasing the resources we are expending internally on early-stage proof of concept programs where we can leverage our competitive edge in gene program creation and host cell and genome expertise. We are also seeking to partner more mature programs and capabilities or later-stage assets. In this way, we endeavor to leverage our capital resources and ultimately hope to realize significant value from our mature assets.

As we consider the broad potential applications of our synthetic biology technologies, and consistent with the evolution of our business strategy, we have acquired a number of ventures that are already enabling products that benefit from the application of synthetic biology. Our strategy contemplates the continued acquisition of product-focused companies that we believe may leverage our technologies and expertise in order to expand their respective product applications. We believe that the acquisition of these types of companies allows us to develop and commercialize innovative products and create significant value.

Consistent with the ongoing evolution of our strategy, from principally utilizing ECCs to seeking a more diverse approach to leverage our technology assets, we routinely consider ways to organize our business and the grouping of our assets to facilitate strategic opportunities.

Our operating subsidiaries

To derive value from the broad potential applications of our synthetic biology technologies, and consistent with the evolution of our business strategy, we routinely consider ways to organize our business to facilitate strategic opportunities. For example, effective January 1, 2018, we transferred substantially all of our gene and cell therapy assets for human health under a newly-formed wholly owned subsidiary, Precigen, Inc., or Precigen, and we consolidated therapeutic applications of our proprietary ActoBiotics platform under ActoBio Therapeutics, Inc., or ActoBio. In addition, we have acquired a number of ventures that are already enabling products that benefit from the application of synthetic biology and that we now operate as subsidiaries. Our strategy contemplates the continued formation and acquisition of such operating subsidiaries. As these enterprises develop, we will determine whether to maintain full ownership, introduce investors via either private or public financing, or seek strategic options to partner or divest the businesses.

Primary wholly owned operating subsidiaries

Precigen, Inc.

Precigen is a fully-integrated gene and cell therapy company committed to delivering precision medicines through innovation that puts patients first. Utilizing platform technologies owned by Precigen or licensed from Intrexon for programming and engineering genetic code, Precigen is developing and investigating next-generation therapeutics to enable patient-focused, cost-effective treatments to address unmet medical needs in the areas of immuno-oncology, autoimmune conditions, and infectious diseases. Precigen is designing investigational therapies intended to be controllable and targeted, with a broad pipeline of internal and partnered programs, all of which are at the preclinical or clinical stages.

ActoBio Therapeutics, Inc.

ActoBio is pioneering a new class of microbe-based ActoBiotics biopharmaceuticals that enable expression and local delivery of disease-modifying therapeutics. The ActoBiotics platform produces biologics through oral or topical administration with treatment applications across many diseases including oral, gastrointestinal, and

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autoimmune/allergic disorders. We believe this cost-effective approach to development will provide safer and more efficacious treatments than injectable biologics. ActoBio, which is party to a number of our ECC agreements, has a strong research and development pipeline with the latest stage

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candidate in Phase 2b clinical trials and an extensive portfolio of candidates ready for clinical development across a number of potential indications.

Trans Ova Genetics, L.C.

Trans Ova Genetics, L.C., or Trans Ova, is internationally recognized as a provider of industry-leading bovine reproductive technologies. Intrexon and Trans Ova are building upon Trans Ova's original platform with a goal of achieving higher levels of delivered value to dairy and beef cattle producers. Progentus, L.C., or Progentus, a wholly owned subsidiary of Trans Ova, is a provider of bovine embryos. ViaGen, L.C., or ViaGen, a wholly owned subsidiary of Trans Ova, is a provider of cloning technology for non-primate species. Exemplar Genetics, LLC, or Exemplar, a wholly owned subsidiary through the combined ownership of Trans Ova, ViaGen and us, is committed to enabling the study of life-threatening human diseases through the development of miniswine research models and services.

Okanagan Specialty Fruits, Inc.

Okanagan Specialty Fruits, Inc. and its affiliates, or Okanagan, is the pioneering agricultural company behind the world's first non-browning apple without the use of any flavor altering chemical or antioxidant additives. Okanagan is scaling up its commercial supplies of non-browning apples and developing new commercial tree fruit varieties intended to provide benefits to the entire supply chain, from growers to consumers.

Oxitec Limited

Oxitec Limited, or Oxitec, is a pioneering company in biological insect control solutions. Oxitec is developing products that use genetic engineering to control insect pests that spread disease and damage crops. Among the applications of its platform which uses advanced genetics and molecular biology, Oxitec has developed a new and innovative solution to controlling Aedes aegypti, a mosquito that is a known vector for the transmission of infectious disease including dengue fever, chikungunya, and Zika. This genetically engineered, self-limiting line of the Aedes aegypti mosquito, or OX513A, has been approved by Brazil's National Biosafety Committee for unrestricted releases throughout the country. Additionally, open field trials of these mosquitoes have been conducted in Brazil, the Cayman Islands, Panama, and Malaysia under relevant permits or approvals. Further approvals will be required for commercial production and use.

Primary majority-owned operating subsidiary

AquaBounty Technologies, Inc.

AquaBounty Technologies, Inc., or AquaBounty, of which we owned approximately 58 percent as of December 31, 2017, is focusing on improving productivity in commercial aquaculture, including the development of the AquAdvantage Salmon, an Atlantic salmon that has been genetically enhanced to reach market size in less time than conventionally farmed Atlantic salmon and approved by the Food and Drug Administration. In January 2018, AquaBounty raised \$12.0 million through an underwritten public offering, in which we participated by investing \$5 million. As a result of this transaction, our ownership decreased to approximately 53 percent. In the future, our ownership stake in AquaBounty may drop below 50 percent, which may result in us deconsolidating AquaBounty.

Mergers, acquisitions, and technology in-licensing

We may augment our suite of proprietary technologies through mergers or acquisitions of technologies which then become available to new or existing ventures, including operating subsidiaries, JVs, and collaborations. Among other things, we may pursue technologies that we believe will be generally complementary to our existing technologies and also meet our desired return on investment and other economic criteria. In certain cases, such technologies may already be applied in the production of products or services and in these cases we may seek to expand the breadth or efficacy of such products or services through the use of our technologies. There have been no mergers, acquisitions or significant technology in-licensing activities in 2018. For a discussion of our 2017 acquisition, see "Notes to the Consolidated Financial Statements (Unaudited) - Note 4" appearing elsewhere in this amended Quarterly Report on Form 10-Q/A.

Financial overview

We have incurred significant losses since our inception. We anticipate that we may continue to incur significant losses for the foreseeable future, and we may never achieve or maintain profitability. Outside of collaboration and license fee payments, which vary over time, we have not generated significant revenues, including revenues or royalties from

product sales by us or

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our collaborators. Certain of our consolidated subsidiaries require regulatory approval and/or commercial scale-up before they may commence significant product sales and operating profits.

We expect our future capital requirements will be substantial, particularly as we continue to develop our business and expand our synthetic biology technology platform. In January 2018, we closed a public offering of 6,900,000 shares of our common stock, including 1,000,000 shares of common stock purchased by affiliates of Third Security, LLC, or Third Security, the net proceeds of which were \$82.4 million, after deducting underwriting discounts and commissions and offering expenses paid by us. Additionally, we have a Preferred Stock Equity Facility, or Preferred Stock Facility, with an affiliate of Third Security, which will terminate no later than April 30, 2019. Our Chairman and Chief Executive Officer, or CEO, also serves as the Senior Managing Director and CEO of Third Security and owns all of the outstanding equity interests of Third Security. Under the Preferred Stock Facility, we may, at our sole and exclusive option, issue and sell to the affiliate of Third Security, up to \$100 million of newly issued Series A Redeemable Preferred Stock, or Series A Preferred Stock. We believe that our existing cash and cash equivalents, short-term investments, cash expected to be received from our current collaborators and for sales of products and services provided by our consolidated subsidiaries, cash received in our January 2018 offering, and any issuances of Series A Preferred Stock under the Preferred Stock Facility will enable us to fund our operating expenses and capital expenditure requirements for at least the next 12 months.

Sources of revenue

Historically, we have derived our collaboration and licensing revenues through agreements with counterparties for the development and commercialization of products enabled by our technologies. Generally, the terms of these collaborations provide that we receive some or all of the following: (i) technology access fees upon signing; (ii) reimbursements of costs incurred by us for our research and development and/or manufacturing efforts related to specific applications provided for in the collaboration; (iii) milestone payments upon the achievement of specified development, regulatory and commercial activities; and (iv) royalties on sales of products arising from the collaboration.

Our technology access fees and milestone payments may be in the form of cash or securities of the collaborator. Our collaborations contain multiple arrangements and we typically defer revenues from the technology access fees and milestone payments received and recognize such revenues in the future over the anticipated performance period. We are also entitled to sublicensing revenues in those situations where our collaborators choose to license our technologies to other parties.

From time to time, we and certain collaborators may cancel the agreements, relieving us of any further performance obligations under the agreement. When no further performance obligations are required of us under an agreement, we may recognize any remaining deferred revenue.

We generate product and service revenues primarily through sales of products or services that are created from technologies developed or owned by us. Our primary current offerings include sales of advanced reproductive technologies, including our bovine embryo transfer and in vitro fertilization processes and from genetic preservation and sexed semen processes and applications of such processes to other livestock, as well as sales of livestock and embryos produced using these processes and used in production. We recognize revenue when the customer takes ownership of the promised product or when the promised service is completed.

In future periods, our revenues will depend in part on our ability to partner our more mature programs and capabilities, the number of collaborations to which we are party, the advancement and creation of programs within our collaborations and the extent to which our collaborators bring products enabled by our technologies to market. Our revenues will also depend upon our ability to maintain or improve the volume and pricing of our current product and service offerings and to develop and scale up production of new offerings from the various technologies of our subsidiaries. Our future revenues may also include additional revenue streams we may acquire through mergers and acquisitions. In light of our limited operating history and experience, there can be no assurance as to the timing, magnitude and predictability of revenues to which we might be entitled.

Cost of products and services

Cost of products and services includes primarily labor and related costs, drugs and supplies used primarily in the embryo transfer and in vitro fertilization processes, livestock and feed used in production, and facility charges,

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including rent and depreciation. Fluctuations in the price of livestock and feed have not had a significant impact on our operating margins and no derivative financial instruments are used to mitigate the price risk.

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We recognize research and development expenses as they are incurred. Our research and development expenses consist primarily of:

- salaries and benefits, including stock-based compensation expense, for personnel in research and development functions;
- fees paid to consultants and contract research organizations who perform research on our behalf and under our direction;
- costs related to laboratory supplies used in our research and development efforts;
- costs related to certain in-licensed technology rights;
- depreciation of leasehold improvements and laboratory equipment;
- amortization of patents and related technologies acquired in mergers and acquisitions; and
- rent and utility costs for our research and development facilities.

We have no individually significant research and development projects and our research and development expenses primarily relate to either the costs incurred to expand or otherwise improve our multiple platform technologies, the costs incurred to develop a specific application of our technologies in support of current or prospective partners, or costs incurred to expand or otherwise improve our products and services. Research and development expenses, including costs for preclinical and clinical development, incurred for programs we support pursuant to an ECC agreement are typically reimbursed by the partner at cost and all other research and development programs may be terminated or otherwise deferred at our discretion. The amount of our research and development expenses may be impacted by, among other things, the number of ECCs and the number and size of programs we may support on behalf of an ECC.

The table below summarizes our research and development expenses incurred to expand or otherwise improve our multiple platform technologies, the costs incurred to develop a specific application of our technologies in support of current or prospective partners, or costs incurred to expand or otherwise improve our products and services for the three months ended March 31, 2018 and 2017. Other research and development expenses for these periods include indirect salaries and overhead expenses that are not allocated to either expanding or improving our multiple platform technologies, specific applications of our technologies in support of current or prospective partners, or expanding or improving our product and services offerings.

	Three Months Ended	
	March 31, 2018	2017
	(In thousands)	
Expansion or improvement of our platform technologies	\$3,794	\$2,803
Specific applications of our technologies in support of current and prospective partners	18,314	19,173
Expansion or improvement of our product and service offerings	8,012	6,352
Other	7,147	5,852
Total research and development expenses	\$37,267	\$34,180

We expect that our research and development expenses will increase as we enter into new collaborations, develop our own proprietary programs, and expand our offerings. We believe these increases will likely include increased costs related to the hiring of additional personnel in research and development functions, increased costs paid to consultants and contract research organizations and increased costs related to laboratory supplies. Research and development expenses may also increase as a result of ongoing research and development operations which we might assume through mergers and acquisitions.

Selling, general and administrative expenses

Selling, general and administrative, or SG&A, expenses consist primarily of salaries and related costs, including stock-based compensation expense, for employees in executive, operational, finance, sales and marketing, information technology, legal and

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corporate communications functions. Other significant SG&A expenses include rent and utilities, insurance, accounting and legal services and expenses associated with obtaining and maintaining our intellectual property. We expect that our SG&A expenses will continue to increase to support our expanding operations as we explore new partnering opportunities and continue to develop our proprietary programs. We believe that these increases will likely include costs related to the hiring of additional personnel and increased fees for business development functions, costs associated with defending the Company in litigation matters, the costs of outside consultants and other professional services. SG&A expenses may also increase as a result of ongoing operations which we might assume through mergers and acquisitions.

Other income (expense), net

We hold equity securities and preferred stock received and/or purchased from certain collaborators. Other than investments accounted for using the equity method discussed below, we elected the fair value option to account for our equity securities and preferred stock held in these collaborators. These equity securities and preferred stock are recorded at fair value at each reporting date. Unrealized appreciation (depreciation) resulting from fair value adjustments are reported as other income (expense) in the consolidated statement of operations. As such, we bear the risk that fluctuations in the securities' share prices may significantly impact our results of operations.

Interest income consists of interest earned on our cash and cash equivalents and short-term and long-term investments. Dividend income consists of the monthly preferred stock dividends received from our investments in preferred stock. In September 2017, the commitment period for Harvest Intrexon Enterprise Fund I, LP, or Harvest, was terminated and, as a result, the agreement with Harvest terminated. The termination of the agreement had no effect on the existing collaborations with Harvest-controlled entities. Through September 2017, as consideration for providing exclusive rights of first-look and first negotiation, we received a portion of the management fee collected by the fund sponsor of Harvest for our obligation to provide Harvest with investment proposals that were suitable for pursuit by a start-up. These fees are included in other income.

Equity in net income (loss) of affiliates

Equity in net income or loss of affiliates is our pro-rata share of our equity method investments' operating results, adjusted for accretion of basis difference. We account for investments in our JVs and start-up entities backed by Harvest using the equity method of accounting since we have the ability to exercise significant influence, but not control, over the operating activities of these entities.

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Results of operations

Comparison of the three months ended March 31, 2018 and the three months ended March 31, 2017

The following table summarizes our results of operations for the three months ended March 31, 2018 and 2017, together with the changes in those items in dollars and as a percentage:

	Three Months Ended		Dollar Change	Percent Change
	March 31, 2018 (As Restated)	2017 (In thousands)		
Revenues (1)				
Collaboration and licensing revenues (2)	\$19,848	\$33,065	\$(13,217)	(40.0)%
Product revenues	7,152	8,130	(978)	(12.0)%
Service revenues	12,247	12,031	216	1.8 %
Other revenues	419	521	(102)	(19.6)%
Total revenues	39,666	53,747	(14,081)	(26.2)%
Operating expenses				
Cost of products	8,530	9,006	(476)	(5.3)%
Cost of services	6,783	6,804	(21)	(0.3)%
Research and development	37,267	34,180	3,087	9.0 %
Selling, general and administrative	39,737	35,138	4,599	13.1 %
Total operating expenses	92,317	85,128	7,189	8.4 %
Operating loss	(52,651)	(31,381)	(21,270)	67.8 %
Total other income, net	3,616	3,418	198	5.8 %
Equity in loss of affiliates	(2,460)	(4,947)	2,487	(50.3)%
Loss before income taxes	(51,495)	(32,910)	(18,585)	56.5 %
Income tax benefit	4,086	533	3,553	>200%
Net loss	(47,409)	(32,377)	(15,032)	46.4 %
Net loss attributable to noncontrolling interests	1,244	978	266	27.2 %
Net loss attributable to Intrexon	\$(46,165)	\$(31,399)	\$(14,766)	47.0 %

Revenues in 2018 are accounted for under Accounting Standards Codification, or ASC, 606, Revenue from Contracts with Customers, or ASC 606, and revenues in 2017 are accounted for under ASC 605, Revenue

(1) Recognition. We adopted ASC 606 on January 1, 2018 using the modified retrospective method, which applies the changes in accounting prospectively and does not restate prior periods.

(2) Including \$16,640 and \$28,887 from related parties for the three months ended March 31, 2018 and 2017, respectively.

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The following table shows the collaboration and licensing revenues recognized for the three months ended March 31, 2018 and 2017, together with the changes in those items.

	Three Months		
	Ended March 31, 2018	Dollar Change	
	(As 2017 Restated)		(In thousands)
ZIOPHARM Oncology, Inc.	\$5,377	\$10,985 \$(5,608)	
Oragenics, Inc.	125	569 (444)	
Fibrocell Science, Inc.	293	1,739 (1,446)	
Genopaver, LLC	1,315	1,680 (365)	
S & I Ophthalmic, LLC	—	303 (303)	
OvaXon, LLC	—	824 (824)	
Intrexon Energy Partners, LLC	1,197	5,086 (3,889)	
Persea Bio, LLC	209	289 (80)	
Ares Trading S.A.	2,423	3,315 (892)	
Intrexon Energy Partners II, LLC	378	1,149 (771)	
Intrexon T1D Partners, LLC	1,328	1,132 196	
Harvest Start-up Entities (1)	3,197	3,363 (166)	
Other	4,006	2,631 1,375	
Total	\$19,848	\$33,065 \$(13,217)	

For the three months ended March 31, 2018 and 2017, revenue recognized from collaborations with Harvest start-up entities include Thrive Agrobiotics, Inc.; Exotech Bio, Inc.; AD Skincare, Inc.; Genten Therapeutics, Inc.; (1) and CRS Bio, Inc. For the three months ended March 31, 2017, revenue recognized from collaborations with Harvest start-up entities also includes Relieve Genetics, Inc.

Collaboration and licensing revenues decreased \$13.2 million, or 40 percent, from the three months ended March 31, 2017 due to a decrease in research and development services for certain of our ECCs as we redeployed certain resources towards supporting prospective new platforms and partnering opportunities and began to focus more on the further development of relationships and structures that provide us with more control and ownership over the development process and commercialization path. This decrease was partially offset by the accelerated recognition of the remaining balance of previously deferred revenue related to our ECC with OvaScience, Inc., which was mutually terminated in March 2018.

Product revenues and gross margin

Product revenues decreased \$1.0 million, or 12 percent, from the three months ended March 31, 2017. The decrease in product revenues was primarily due to lower customer demand for cows and live calves combined with lower sales prices on cows. Gross margin on products declined in the current period as a result of increased operating costs associated with new product offerings.

Service revenues and gross margin

Service revenues increased \$0.2 million, or 2 percent, over the three months ended March 31, 2017. The increase in service revenues relates to an increase in the number of bovine in vitro fertilization cycles performed due to higher customer demand. Gross margin on these services were consistent period over period.

Research and development expenses

Research and development expenses increased \$3.1 million, or 9 percent, over the three months ended March 31, 2017. The increase is due primarily to increases in (i) salaries, benefits and other personnel costs for research and development employees and (ii) depreciation and amortization. Salaries, benefits and other personnel costs increased \$1.5 million due to an increase in

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research and development headcount necessary to invest in current or expanding platforms and increased compensation expenses related to performance and retention incentives for research and development employees. Depreciation and amortization increased \$1.2 million primarily as a result of (i) the amortization of developed technology acquired from GenVec, Inc., or GenVec, in June 2017, and (ii) additional research and development assets placed in service in 2017 at Oxitec.

Selling, general and administrative expenses

SG&A expenses increased \$4.6 million, or 13 percent, over the three months ended March 31, 2017. Salaries, benefits and other personnel costs increased \$6.2 million primarily due to (i) increased headcount to support our expanding operations, (ii) increased compensation expenses related to performance and retention incentives for SG&A employees, and (iii) higher stock-based compensation expense due to the inclusion in three months ended March 31, 2017 of the reversal of previously recognized stock-based compensation expense for stock options granted to our former President who resigned in March 2017 as well as incremental stock-based compensation expense associated with new equity grants issued in 2018. Legal and professional fees decreased \$2.3 million primarily due to (i) decreased legal fees associated with ongoing litigation and (ii) decreased fees incurred for regulatory and other consultants.

Equity in net loss of affiliates

Equity in net loss of affiliates for the three months ended March 31, 2018 and 2017, includes our pro-rata share of the net losses of our investments we account for using the equity method of accounting. The \$2.5 million, or 50 percent, decrease from the three months ended March 31, 2017 was directly related to the decrease in collaboration revenues from collaborators in which we own an equity-method interest.

Liquidity and capital resources**Sources of liquidity**

We have incurred losses from operations since our inception and as of March 31, 2018, we had an accumulated deficit of \$867.4 million. From our inception through March 31, 2018, we have funded our operations principally with proceeds received from private and public offerings, cash received from our collaborators and through product and service sales made directly to customers. As of March 31, 2018, we had cash and cash equivalents of \$119.9 million, and we have the Preferred Stock Facility with an affiliate of Third Security, under which we may, at our sole and exclusive option, issue and sell up to \$100 million of newly issued Series A Preferred Stock. Cash in excess of immediate requirements is typically invested primarily in money market funds and U.S. government debt securities in order to maintain liquidity and preserve capital.

We currently generate cash receipts primarily from technology access fees, reimbursement of research and development services performed by us and sales of products and services.

Cash flows

The following table sets forth the significant sources and uses of cash for the periods set forth below:

	Three Months Ended		
	March 31,	2018	2017
	(In thousands)		
Net cash provided by (used in):			
Operating activities	\$ (29,888)	\$ (24,689)	\$ (24,689)
Investing activities	(7,456)	34,554	34,554
Financing activities	88,262	(3,146)	(3,146)
Effect of exchange rate changes on cash, cash equivalents, and restricted cash	914	526	526
Net increase in cash, \$ cash equivalents and	51,832	\$ 7,245	\$ 7,245

restricted cash

Cash flows from operating activities:

During the three months ended March 31, 2018, our net loss was \$47.4 million, which includes the following significant noncash expenses that total \$26.3 million: (i) \$11.4 million of stock-based compensation expense, (ii) \$8.4 million of

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depreciation and amortization expense, (iii) \$2.9 million of shares issued as payment for services, (iv) \$2.5 million of equity in net loss of affiliates, and (v) \$1.1 million of noncash net unrealized losses on our equity securities and preferred stock, partially offset by \$4.9 million of noncash dividend income. Additionally, we had a \$0.4 million net increase in our operating assets and liabilities. During the three months ended March 31, 2017, our net loss was \$32.4 million, which includes the following significant noncash expenses that total \$24.7 million: (i) \$7.9 million of stock-based compensation expense, (ii) \$7.4 million of depreciation and amortization expense, (iii) \$4.9 million of equity in net loss of affiliates, (iv) \$2.9 million of shares issued as payment for services, and (v) \$1.6 million of noncash unrealized losses on our equity securities and preferred stock, partially offset by \$3.9 million of noncash dividend income. Additionally, we had a \$13.2 million net increase in our operating assets and liabilities.

Cash flows from investing activities:

During the three months ended March 31, 2018, we received proceeds of \$6.0 million from the maturity of short-term investments and \$2.6 million from the return of the balance from an investment in an affiliate that was dissolved, and used \$10.8 million for purchases of property, plant and equipment and \$5.5 million for investments in our JVs. During the three months ended March 31, 2017, we received proceeds of \$45.0 million from the maturity of short-term investments and used \$6.3 million for purchases of property, plant and equipment and \$4.6 million for investments in our JVs.

Cash flows from financing activities:

During the three months ended March 31, 2018, we received \$88.0 net proceeds from public financings in January. During the three months ended March 31, 2017, we paid \$2.0 million of deferred consideration to former shareholders of an acquired business and \$0.9 million to acquire the remaining noncontrolling interest of one of our subsidiaries.

Future capital requirements

We established our strategy and business model of commercializing our technologies through collaborations with development expertise in 2010, and we consummated our first collaboration in January 2011. We believe that our efforts to partner our more mature programs and capabilities and to continue to consummate collaborations across our various industries will result in additional upfront, milestone and cost recovery payments in the future.

We believe that our existing cash and cash equivalents, cash expected to be received from our current collaborators and for sales of products and services provided by our consolidated subsidiaries, and proceeds received from any issuance of Series A Preferred Stock under the Preferred Stock Facility will enable us to fund our operating expenses and capital expenditure requirements for at least the next 12 months.

We have based our estimates on assumptions that may prove to be wrong, and we may use our available capital resources sooner than we currently expect. Our future capital requirements will depend on many factors, including:

- progress in our research and development programs, as well as the magnitude of these programs;
- the timing, receipt and amount of any payments received in connection with strategic transactions;
- the timing, receipt and amount of upfront, milestone and other payments, if any, from present and future collaborators, if any;
- the timing, receipt and amount of sales and royalties, if any, from our potential products;
- our ability to maintain or improve the volume and pricing of our current product and service offerings and to develop new offerings, including those which may incorporate new technologies;
- the timing and capital requirements to scale up our various product and service offerings and customer acceptance thereof;
 - our ability to maintain and establish additional collaborative arrangements and/or new strategic initiatives;
- the timing of regulatory approval of products of our collaborations and operations;

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- the resources, time and cost required for the preparation, filing, prosecution, maintenance and enforcement of patent claims;
- investments we may make in current and future collaborators, including JVs;
- strategic mergers and acquisitions, including both the upfront acquisition cost as well as the cost to integrate, maintain, and expand the strategic target; and
- the costs associated with legal activities, including litigation, arising in the course of our business activities and our ability to prevail in any such legal disputes.

Until such time, if ever, as we can regularly generate positive operating cash flows, we may finance our cash needs through a combination of equity offerings, including issuances from the Preferred Stock Facility; debt financings; government or other third-party funding; strategic alliances and licensing arrangements. To the extent that we raise additional capital through the sale of equity or convertible debt securities, the ownership interests of our common shareholders will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of our common shareholders. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we raise additional funds through government or other third-party funding, marketing and distribution arrangements or other strategic transactions, collaborations, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or to grant licenses on terms that may not be favorable to us.

Contractual obligations and commitments

The following table summarizes our significant contractual obligations and commitments as of March 31, 2018 and the effects such obligations are expected to have on our liquidity and cash flows in future periods:

	Total	Less Than 1 Year	1 - 3 Years	3 - 5 Years	More Than 5 Years
(In thousands)					
Operating leases	\$71,720	\$8,458	\$18,913	\$15,595	\$28,754
Purchase commitments	15,098	10,320	4,778	—	—
Long term debt	5,818	501	784	1,204	3,329
Contingent consideration	585	—	585	—	—
Total	\$93,221	\$19,279	\$25,060	\$16,799	\$32,083

In addition to the obligations in the table above, as of March 31, 2018 we also have the following significant contractual obligations described below.

In conjunction with the formation of our JVs, we committed to making future capital contributions of at least \$40.0 million to the JVs, subject to certain conditions and limitations. As of March 31, 2018, our remaining capital contribution commitments to our JVs were \$17.3 million. These future capital contributions are not included in the table above due to the uncertainty of the timing and amounts of such contributions.

We are party to in-licensed research and development agreements with various academic and commercial institutions where we could be required to make future payments for annual maintenance fees as well as for milestones and royalties we might receive upon commercial sales of products which incorporate their technologies. These agreements are generally subject to termination by us and therefore no amounts are included in the tables above. At March 31, 2018, we also had research and development commitments with third parties totaling \$11.1 million that had not yet been incurred.

In January 2015, we and ZIOPHARM Oncology, Inc., or ZIOPHARM, jointly entered into a license agreement with the University of Texas MD Anderson Cancer Center, or MD Anderson, whereby we received an exclusive license to certain technologies owned by MD Anderson. ZIOPHARM received access to these technologies pursuant to the terms of our ECC. We and ZIOPHARM are obligated to reimburse MD Anderson for out of pocket expenses for maintaining patents covering the licensed technologies. These reimbursements are not included in the table above due to the uncertainty of the timing and amounts of such reimbursements.

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As part of our August 2014 acquisition of Trans Ova, we agreed to pay a portion of certain cash proceeds received from the litigation with XY, LLC. These amounts are not included in the table above due to the uncertainty of whether and when any amounts may be due.

In conjunction with a prior transaction associated with Trans Ova's subsidiary, ViaGen, in September 2012, we may be obligated to make certain future contingent payments to the former equity holders of ViaGen, up to a total of \$3.0 million if certain revenue targets, as defined in the share purchase agreement, are met. This amount is not included in the table above due to the uncertainty of when we will make any of these future payments, if ever.

In January 2009, AquaBounty was awarded a grant to provide funding of a research and development project from the Atlantic Canada Opportunities Agency, a Canadian government agency. Amounts claimed by AquaBounty must be repaid in the form of a 10 percent royalty on any products commercialized out of this research and development project until fully paid. Because the timing of commercialization is subject to additional regulatory considerations, the timing of repayment is uncertain. AquaBounty claimed all amounts available under the grant, resulting in total long term debt of \$2.1 million on our consolidated financial statements as of March 31, 2018. This amount is not included in the table above due to the uncertainty of the timing of repayment.

Net operating losses

As of March 31, 2018, we had net operating loss carryforwards of approximately \$279.5 million for U.S. federal income tax purposes available to offset future taxable income, and U.S. federal and state research and development tax credits of approximately \$7.8 million, prior to consideration of annual limitations that may be imposed under Section 382 of the Internal Revenue Code of 1986, as amended, or Section 382. These carryforwards begin to expire in 2022. Our direct foreign subsidiaries have foreign loss carryforwards of approximately \$160.7 million, most of which do not expire. Excluding certain deferred tax liabilities totaling \$11.6 million, our remaining net deferred tax assets, which primarily relate to these loss carryforwards, are offset by a valuation allowance due to our history of net losses.

As a result of our past issuances of stock, as well as due to prior mergers and acquisitions, certain of our net operating losses have been subject to limitations pursuant to Section 382. As of March 31, 2018, Intrexon has utilized all net operating losses subject to Section 382 limitations, other than those losses inherited via acquisitions. As of March 31, 2018, approximately \$33.6 million of domestic net operating losses were inherited via acquisition, including approximately \$13.4 million acquired in our acquisition of GenVec, and are limited based on the value of the target at the time of the transaction. Future changes in stock ownership may also trigger an ownership change and, consequently, a Section 382 limitation.

The Tax Cuts and Jobs Act of 2017 introduces certain limitations on utilization of net operating losses that are generated after 2017, generally limiting utilization of those losses to 80 percent of future annual taxable income. However, losses generated after 2017 will generally have an indefinite carryforward period.

Off-balance sheet arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, other than operating leases and purchase commitments as mentioned above, as defined under Securities and Exchange Commission, or SEC, rules.

Critical accounting policies and estimates

Our management's discussion and analysis of our financial condition and results of operations is based on our consolidated financial statements, which we have prepared in accordance with generally accepted accounting principles in the United States, or U.S. GAAP. The preparation of these consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported revenues and expenses during the reporting periods. We evaluate these estimates and judgments on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Our actual results may differ from these estimates under different assumptions or conditions.

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There have been no material changes to our critical accounting policies from those described in "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in our Annual Report on Form 10-K for the year ended December 31, 2017, except as follows:

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Effective January 1, 2018, we apply ASC 606. Under ASC 606, we recognize revenue when our customer obtains control of the promised goods or services, in an amount that reflects the consideration that we expect to receive in exchange for those goods or services. To determine revenue recognition for arrangements that are within the scope of ASC 606, we perform the following five steps: (i) identify the contract(s) with a customer; (ii) identify the promises and distinct performance obligations in the contract; (iii) determine the transaction price; (iv) allocate the transaction price to the performance obligations in the contract; and (v) recognize revenue when (or as) we satisfy the performance obligations.

Our revenue recognition accounting policies for periods prior to January 1, 2018 can be found in the audited consolidated financial statements and related notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2017.

Collaboration and licensing revenues

We generate collaboration and licensing revenues through the execution of agreements with collaborators, known as ECCs, and licensing agreements whereby the collaborators or the licensee obtain exclusive access to our proprietary technologies for use in the research, development and commercialization of products and/or treatments in a contractually specified field of use. Generally, the terms of these agreements provide that we receive some or all of the following: (i) upfront payments upon consummation of the agreement, (ii) reimbursements for costs incurred by us for research and development and/or manufacturing efforts related to specific applications provided for in the agreement, (iii) milestone payments upon the achievement of specified development, regulatory and commercial activities, and (iv) royalties on sales of products arising from the collaboration or licensing agreement. The agreement typically continues in perpetuity unless terminated and each of our collaborators retains a right to terminate the agreement upon providing us written notice a certain period of time prior to such termination, generally 90 days.

Our collaboration and licensing agreements typically contain multiple promises, including technology licenses, research and development services, and in certain cases manufacturing services. We determine whether each of the promises is a distinct performance obligation. As the nature of the promises in our collaboration and licensing agreements are highly integrated and interrelated, we typically combine most of our promises into a single performance obligation. Because we are performing research and development services during early-stage development, the services are integral to the utilization of the technology license. Therefore, we have determined that the technology license and research and development services are typically inseparable from each other during the performance period of our collaboration and licensing agreements. Contingent manufacturing services that may be provided under certain of our agreements are considered to be a separate future contract and not part of the current collaboration or licensing agreement.

At contract inception, we determine the transaction price, including fixed consideration and any estimated amounts of variable consideration. The upfront payment received upon consummation of the agreement is fixed and nonrefundable. Variable consideration is subject to a constraint and amounts are included in the transaction price to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is subsequently resolved. Variable consideration may include reimbursements for costs incurred by us for research and development efforts, milestone payments upon the achievement of certain development, regulatory and commercial activities, and royalties on sales of products arising from the collaboration or licensing agreement. We determine the initial transaction price and exclude variable consideration that is otherwise constrained pursuant to the guidance in ASC 606.

The transaction price is allocated to the performance obligations in the agreement based on the standalone selling price of each performance obligation. We typically group the promises in our collaboration and licensing agreements into one performance obligation so the entire transaction price relates to this single performance obligation. The technology license included in the single performance obligation is considered a functional license. However, it is typically combined into a single performance obligation as we provide interrelated research and development services along with other obligations over an estimated period of performance. We utilize judgment to determine the most appropriate method to measure our progress of performance under the agreement, primarily based on inputs necessary to fulfill the performance obligation. We evaluate our measure of progress to recognize revenue each reporting period

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and, if necessary, adjust the measure of performance and related revenue recognition. Payments received for cost reimbursements for research and development efforts are recognized as revenue as the services are performed, in connection with the single performance obligation discussed above. The reimbursements relate specifically to our

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efforts to provide services and the reimbursements are consistent with what we would typically charge other collaborators for similar services.

Milestone payments are evaluated at the inception of the agreement to determine whether the milestones are considered probable of being achieved. We typically determine that the milestones are not probable at inception of the agreement due to the uncertainty of when and if the milestone will be achieved.

Royalties, including sales-based milestones, received under the agreements will be recognized as revenue when sales have occurred because we apply the sales- or usage-based royalties recognition exception provided for under ASC 606. We determined the application of this exception is appropriate because at the time the royalties are generated, the technology license granted in the agreement is the predominant item to which the royalties relate.

As we receive upfront payments in our collaboration and licensing agreements, we evaluate whether any significant financing components exist in our collaboration and licensing agreements. Based on the nature of our collaboration and licensing agreements, there are no significant financing components as the purpose of the upfront payment is not to provide financing. The purpose is to provide the collaborator with assurance that we will complete our obligations under the contract or to secure the right to a specific product or service at the collaborator's discretion. In addition, the variable payments generally align with the timing of performance or the timing of the consideration varies on the basis of the occurrence or nonoccurrence of a future event that is not substantially within the control of the collaborator or us.

From time to time, we and certain collaborators may cancel our agreements, relieving us of any further performance obligations under the agreement. When no further performance obligations are required of us under an agreement, we recognize any remaining deferred revenue.

Product and service revenues

We generate product and service revenues primarily through sales of products and services which are created from technologies developed or owned by us. Our current offerings include sales of advanced reproductive technologies, including our bovine embryo transfer and in vitro fertilization processes and from genetic preservation and sexed semen processes and applications of such processes to other livestock, as well as sales of livestock and embryos produced using these processes and used in production. As each promised product or service is distinct, we recognize the transaction price as revenue when the customer takes ownership of the promised product or when the promised service is rendered. Payment terms are typically due within 30 days.

Recent accounting pronouncements

For information with respect to recent accounting pronouncements and the impact of these pronouncements on our consolidated financial statements, see "Notes to the Consolidated Financial Statements (Unaudited) - Note 3" appearing elsewhere in this amended Quarterly Report on Form 10-Q/A.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

The following sections provide quantitative information on our exposure to interest rate risk, stock price risk, and foreign currency exchange risk. We make use of sensitivity analyses which are inherently limited in estimating actual losses in fair value that can occur from changes in market conditions.

Interest rate risk

We had cash, cash equivalents and short-term investments of \$120.2 million and \$74.4 million at March 31, 2018 and December 31, 2017, respectively. Our cash and cash equivalents and short-term investments consist of cash, money market funds, U.S. government debt securities, and certificates of deposit. The primary objectives of our investment activities are to preserve principal, maintain liquidity and maximize income without significantly increasing risk. Our investments consist of U.S. government debt securities and certificates of deposit which may be subject to market risk due to changes in prevailing interest rates that may cause the fair values of our investments to fluctuate. We believe that a hypothetical 100 basis point increase in interest rates would not materially affect the fair value of our interest-sensitive financial instruments and any such losses would only be realized if we sold the investments prior to maturity.

Investments in publicly traded companies' common stock

We have common stock investments in several publicly traded companies that are subject to market price volatility. We have adopted the fair value method of accounting for these investments, except for our investment in AquaBounty as further described below, and therefore, have recorded them at fair value at the end of each reporting period with the unrealized gain or loss recorded as a separate component of other income, net for the period. As of March 31, 2018 and December 31, 2017, the original aggregate cost basis of these investments was \$102.6 million, and the market value was \$14.0 million and \$15.1 million, respectively. The fair value of these investments is subject to fluctuation in the future due to the volatility of the stock market, changes in general economic conditions and changes in the financial conditions of these companies. The fair value of these investments as of March 31, 2018 would be approximately \$15.4 million and \$11.2 million, respectively, based on a hypothetical 10 percent increase or 20 percent decrease in the value of the investments. The fair value of these investments as of December 31, 2017 would be approximately \$16.6 million and \$12.1 million, respectively, based on a hypothetical 10 percent increase or 20 percent decrease in the value of the investments.

The common stock of AquaBounty is traded on the NASDAQ Stock Market. As of March 31, 2018, we owned 6,700,738 shares, or approximately 53 percent. The fair value of our investment in AquaBounty as of March 31, 2018 and December 31, 2017 was \$19.8 million and \$18.2 million, respectively, based on AquaBounty's quoted closing price on the NASDAQ Stock Market. The fair value of our investment in AquaBounty as of March 31, 2018 would be approximately \$21.8 million and \$15.8 million, respectively, based on a hypothetical 10 percent increase or 20 percent decrease in the share price of AquaBounty. The fair value of our investment in AquaBounty as of December 31, 2017 would be approximately \$20.0 million and \$14.6 million, respectively, based on a hypothetical 10 percent increase or 20 percent decrease in the share price of AquaBounty.

Investments in publicly traded companies' preferred stock

We have preferred stock investments in several publicly traded companies, most of which may be converted to common stock in the future. We have adopted the fair value method of accounting for these investments whereby the value of preferred stock is adjusted to fair value as of each reporting date. As of March 31, 2018 and December 31, 2017, the original cost basis of these investments, including dividends, was \$153.2 million and \$148.3 million, respectively, and the fair value of these investments was \$166.1 million and \$161.2 million, respectively. The fair value of these investments is subject to fluctuation in the future due to, among other things, the likelihood and timing of conversion of the preferred stock into common stock, the volatility of each company's common stock, and changes in general economic and financial conditions of these companies. The fair value of these investments as of March 31, 2018 would be approximately \$182.7 million and \$132.9 million, respectively, based on a hypothetical 10 percent increase or 20 percent decrease in the value of the investments. The fair value of these investments as of December 31, 2017 would be approximately \$177.3 million and \$129.0 million, respectively, based on a hypothetical 10 percent increase or 20 percent decrease in the value of the investments.

Foreign currency exchange risk

We have international subsidiaries in Belgium, Brazil, Canada, England, and Hungary. These subsidiaries' assets, liabilities, and current revenues and expenses are denominated in their respective foreign currency. We do not hedge our foreign currency exchange rate risk. The effect of a hypothetical 10 percent change in foreign currency exchange rates applicable to our business would not have a material impact on our consolidated financial statements.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our principal executive and financial officers, evaluated the effectiveness of our disclosure controls and procedures as of March 31, 2018. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information is accumulated and communicated to the company's management, including its principal executive and principal financial officers, as

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appropriate to allow timely decisions regarding required disclosure. At the time our Quarterly Report on Form 10-Q for the period ended March 31, 2018 was originally filed on May 10, 2018, our principal executive and financial officers concluded that our disclosure controls and procedures were effective as of March 31, 2018.

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Subsequent to the original evaluation, our principal executive and financial officers reevaluated the effectiveness of our disclosure controls and procedures and concluded that, as of March 31, 2018, our disclosure controls and procedures were not effective because of the material weakness in internal control over financial reporting described below.

Material Weakness in Internal Control Over Financial Reporting

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of the annual or interim financial statements will not be prevented or detected on a timely basis.

We did not maintain effective internal controls related to the adoption of Accounting Standards Codification ("ASC") Topic 606, Revenue from Contracts with Customers ("ASC 606"). Specifically, we did not design controls which were sufficiently precise to identify and account for the impacts of adopting ASC 606 on our open exclusive channel collaboration agreements, including gross versus net presentation for payments pursuant to one of the Company's contracts, the guidance for contract modifications to a contract that had been modified prior to the adoption of ASC 606, and the measurement of progress for performance obligations satisfied over time. This control deficiency resulted in the misstatement of accumulated deficit, deferred revenue, and collaboration and licensing revenues, and restatement of the Company's consolidated financial statements for the quarter ended March 31, 2018.

Additionally, this control deficiency could result in a misstatement of the aforementioned account balances or disclosures that would result in a material misstatement to the annual or interim consolidated financial statements that would not be prevented or detected. Accordingly, our management has determined that this control deficiency constitutes a material weakness.

Changes in Internal Control Over Financial Reporting

The material weakness described above constitutes a change in our internal control over financial reporting during the three months ended March 31, 2018, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Management's Plan for Remediation of Material Weakness

Management's planned actions to address the material weakness described above include (a) engagement of third-party technical accounting advisors on any future complex matters which fall within the scope of ASC 606, (b) design and implementation of a more precise review framework whereby our advisors will provide a more detailed assessment of how ASC 606 applies to all key elements of our contracts with customers and (c) design procedures for a comprehensive review of such deliverables and conclusions by management via a sufficiently detailed analysis of the relevant contracts, amendments, accounting guidance and related interpretations.

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PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We are involved in litigation or legal matters incidental to our business activities. While the outcome of these matters cannot be predicted with certainty, we do not currently expect that any of these matters will have a material adverse effect on our business or financial position. However, should one or more of these matters be resolved in a manner adverse to our current expectation, the effect on our results of operations for a particular fiscal reporting period could be material.

In June and July 2016, two shareholders made separate demands under Virginia law demanding that we file suit against certain of our current officers and directors for alleged breaches of fiduciary duty and other claims. The demands were based upon and asserted the allegations contained in a report published in April 2016 on the Seeking Alpha financial blog. In July 2016, our board of directors authorized our Special Litigation Committee, or the SLC, consisting of independent directors, to investigate the claims and allegations made in the two shareholder demands and to decide on our behalf whether the claims and allegations should be pursued. In February 2017, the SLC completed its review and evaluation and unanimously determined that there was no basis for any of the allegations, that our officers and directors did not breach their fiduciary duties or any other applicable law, and that prosecution of the asserted claims was not in our or our shareholders' best interest.

Following the SLC's determination, in March 2017, a derivative complaint captioned *Luger v. Kirk et al.* was filed in the Circuit Court of Fairfax County, Virginia, alleging causes of action for breaches of fiduciary duty and unjust enrichment relating to the same allegations investigated by the SLC. On April 4, 2018, the plaintiff filed a motion to nonsuit, which the court granted without prejudice on April 13, 2018.

The Division of Enforcement of the SEC is conducting an investigation which we believe concerns certain issues raised by the foregoing and by the previously disclosed consolidated putative shareholder class action lawsuit, captioned Intrexon Corporation Securities Litigation, that was dismissed on November 1, 2017 and the previously disclosed shareholder derivative action captioned *Basile v. Kirk et al.* that was dismissed on January 25, 2018. We have met with the SEC staff and are voluntarily cooperating with their investigation. Our board of directors has authorized the SLC to monitor our interaction with the SEC staff.

Item 1A. Risk Factors

As disclosed in "Item 1A. Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2017, there are a number of risks and uncertainties that may have a material effect on the operating results of our business and our financial condition. There are no additional material updates or changes to our risk factors since the filing of our Annual Report on Form 10-K for the year ended December 31, 2017, except as follows:

If we experience a significant breach of data security or disruption in our information systems, our business could be adversely affected.

We rely on various information systems to manage our operations and to store information, including sensitive data such as confidential business information and personally identifiable information. These systems could be vulnerable to interruption or malfunction, including due to events beyond our control, and to unauthorized access, computer hackers, ransomware, viruses and other security problems. Failure of these systems or any significant breach of our data security could have an adverse effect on our business and may materially adversely affect our operating results and financial condition.

Data security breaches could result in loss or misuse of information, which could, in turn, result in potential regulatory actions or litigation, including material claims for damages, compelled compliance with breach notification laws, interruption to our operations, damage to our reputation or could otherwise have a material adverse effect on our business, financial condition and operating results. Companies throughout our industry have been increasingly subject to a wide variety of security incidents, cyber-attacks and other attempts to gain unauthorized access to networks or sensitive information. While we have implemented and continue to implement cybersecurity safeguards and procedures, we may be unable to implement adequate protective measures. As cyber threats continue to evolve, we may be required to expend additional resources to enhance our cybersecurity measures or to investigate or remediate any vulnerabilities or breaches.

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In addition, our information systems are complex and include software that is internally developed, software licensed from third parties and hardware purchased from third parties. These products may contain internal errors or defects, particularly when first introduced or when new versions or enhancements are released.

Additionally, in evaluating our risks, readers also should carefully consider the risk factors discussed in our Annual Report on Form 10-K for the year ended December 31, 2017, which could materially affect our business, financial condition or operating results, in addition to the other information set forth in this report and in our other filings with the SEC.

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

(a) Sales of Unregistered Securities

From January 1, 2018 through March 31, 2018, we consummated the following transactions involving the issuance of unregistered securities:

the issuance of 160,626 unregistered shares of our common stock in January, February, and March 2018, as payment under the Services Agreement entered into and effective as of November 1, 2015, as amended, by and between us and • Third Security as previously discussed in our Current Report on Form 8-K filed on March 31, 2017. We issued these shares of common stock in reliance on exemptions from registration under Section 4(a)(2) of the Securities Act.

(b) Use of Proceeds

None.

(c) Issuer Purchases of Equity Securities

None.

Item 6. Exhibits

Exhibit No.	Description
10.1*	<u>Third Amendment to Services Agreement, by and between Intrexon Corporation and Third Security, LLC, effective as of January 1, 2018</u> (incorporated by reference to Exhibit 10.1 to Intrexon Corporation's Current Report on Form 8-K filed on January 2, 2018 with the Securities and Exchange Commission).
10.2*†	<u>Intrexon Corporation 2013 Amended and Restated Omnibus Incentive Plan, as amended, Restricted Stock Unit Agreement, by and between Intrexon Corporation and Randal J. Kirk, effective as of April 1, 2018</u> (incorporated by reference to Exhibit 10.1 to Intrexon Corporation's Current Report on Form 8-K filed on April 5, 2018 with the Securities and Exchange Commission).
10.2A*†	<u>Intrexon Corporation 2013 Amended and Restated Omnibus Incentive Plan, as amended, Form of Restricted Stock Unit Agreement for Officers</u> (incorporated by reference to Exhibit 10.2K to Intrexon Corporation's Annual Report on Form 10-K filed on March 1, 2018 with the Securities and Exchange Commission).
10.2B*†	<u>Intrexon Corporation 2013 Amended and Restated Omnibus Incentive Plan, as amended, Form of Restricted Stock Unit Agreement for Directors</u> (incorporated by reference to Exhibit 10.2L to Intrexon Corporation's Annual Report on Form 10-K filed on March 1, 2018 with the Securities and Exchange Commission).
31.1	<u>Certification of Randal J. Kirk, Chairman and Chief Executive Officer (Principal Executive Officer) of Intrexon Corporation, pursuant to Rules 13a-14(a) and 15d-14(a) promulgated under the Securities Exchange Act of 1934, as amended, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
31.2	<u>Certification of Rick L. Sterling, Chief Financial Officer (Principal Financial Officer) of Intrexon Corporation, pursuant to Rules 13a-14(a) and 15d-14(a) promulgated under the Securities Exchange Act of 1934, as amended, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
32.1**	<u>Certification of Randal J. Kirk, Chairman and Chief Executive Officer (Principal Executive Officer) of Intrexon Corporation, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
32.2**	<u>Certification of Rick L. Sterling, Chief Financial Officer (Principal Financial Officer) of Intrexon Corporation, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
	Interactive Data File (amended Quarterly Report on Form 10-Q/A, for the quarterly period ended March 31, 2018 As Restated, formatted in XBRL (eXtensible Business Reporting Language)).
101.0	Attached as Exhibit 101.0 to this amended Quarterly Report on Form 10-Q/A are the following documents formatted in XBRL: (i) the Consolidated Balance Sheets at March 31, 2018 (As Restated) and December 31, 2017, (ii) the Consolidated Statements of Operations for the three months ended March 31, 2018 (As Restated) and March 31, 2017, (iii) the Consolidated Statements of Comprehensive Loss for the three months ended March 31, 2018 (As Restated) and March 31, 2017, (iv) the Consolidated Statements of Shareholders' and Total Equity for the three months ended March 31, 2018 (As Restated), (v) the Consolidated Statements of Cash Flows for the three months ended March 31, 2018 (As Restated) and March 31, 2017, and (vi) the Notes to Consolidated Financial Statements.

* Previously filed.

**Furnished herewith.

†Indicates management contract or compensatory plan.

SIGNATURES

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

Intrexon Corporation
(Registrant)

Date: August 13, 2018 By: /s/ Rick L. Sterling
Rick L. Sterling
Chief Financial Officer
(Principal Financial and Accounting Officer)