INTREXON CORPORATION 20374 Seneca Meadows Parkway Germantown, Maryland 20876 Telephone: (301) 556-9900

April 19, 2018

VIA EDGAR

Mr. Joel Parker Senior Assistant Chief Accountant Office of Beverages, Apparel and Mining Division of Corporation Finance Securities and Exchange Commission 100 F Street, NE Washington, DC 20549

**Re:** Intrexon Corporation

Form 10-K for the Fiscal Year Ended December 31, 2017 Filed March 1, 2018 File Number 001-36042

Dear Mr. Parker:

We have reviewed the comments of the staff (the "Staff") of the Securities and Exchange Commission, as set forth in its letter dated April 9, 2018, with respect to the above-referenced filing. Enclosed herewith are the Staff's comments followed by responses on behalf of Intrexon Corporation (the "Company").

Form 10-K for the Fiscal Year Ended December 31, 2017

**Financial Statements** 

Consolidated Balance Sheets, page F-5

Comment:

1. Please disclose your deferred revenue from related parties on the face of the balance sheet. Refer to Rule 4-08(k) of Regulation S-X.

### Response:

The Company confirms that in future quarterly and annual filings, starting with the Company's Form 10-Q for the period ended March 31, 2018 (the "March 31, 2018 10-Q"), it will disclose deferred revenue from related parties on the face of the balance sheet,

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consistent with the Staff's comment. Below, using the balance sheet at December 31, 2017 and 2016 disclosed in the Company's Form 10-K for the fiscal year ended December 31, 2017 (the "2017 10-K"), is an illustrative example of the disclosure the Company will include in future filings (new language is underlined):

# Intrexon Corporation and Subsidiaries Consolidated Balance Sheets December 31, 2017 and 2016

(Amounts in thousands, except share data)	2017	2016
Liabilities and Total Equity Current liabilities		
Accounts payable	\$ 8,701	\$ 8,478
Accrued compensation and benefits	6,474	6,540
Other accrued liabilities	21,080	15,776
Deferred revenue, including \$29,155 and \$33,802 from related parties as of December 31, 2017 and 2016,	21,000	10,770
respectively	42,870	53,364
Lines of credit	233	820
Current portion of long term debt	502	386
Deferred consideration	_	8,801
Related party payables	313	440
Total current liabilities	80,173	94,605
Long term debt, net of current portion	7,535	7,562
Deferred revenue, net of current portion, including \$157,628 and \$214,301 from related parties as of December 31, 2017		
and 2016, respectively	193,527	256,778
Deferred tax liabilities, net	15,620	17,007
Other long term liabilities	3,451	3,868
Total liabilities	300,306	379,820
Commitments and contingencies (Note 17)		
Total equity		
Common stock, no par value, 200,000,000 shares authorized as of December 31, 2017 and 2016; and 122,087,040		
shares and 118,688,770 shares issued and outstanding as of December 31, 2017 and 2016, respectively	_	_
Additional paid-in capital	1,397,005	1,325,780
Accumulated deficit	(847,820)	(729,341)
Accumulated other comprehensive loss	(15,554)	(36,202)
Total Intrexon shareholders' equity	533,631	560,237
Noncontrolling interests	12,914	9,011
Total equity	546,545	569,248
Total liabilities and total equity	\$ 846,851	\$ 949,068

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## Notes to Consolidated Financial Statements

### 5. Collaboration and Licensing Revenue, page F-32

## Comment:

2. Please disclose the estimated remaining performance period for your significant collaboration agreements.

### Response:

The Company confirms that in future quarterly and annual filings, starting with the March 31, 2018 Form 10-Q, it will disclose the estimated remaining performance period for its significant collaboration agreements, consistent with the Staff's comment. Below, using disclosure from the 2017 10-K, is an illustrative example of the disclosure the Company will include in future filings (new language is underlined):

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 December 31, 2017 and 2016, including the estimated, average remaining performance period as of December 31, 2017.

	Average Remaining	D	December 31,	
	Performance Period (Years)	2017	2016	
ZIOPHARM Oncology, Inc.	6.0	\$ 90,496	\$138,809	
Oragenics, Inc.	6.4	6,719	7,766	
Fibrocell Science, Inc.	6.9	16,607	19,026	
Genopaver, LLC	6.3	1,704	1,977	
Intrexon Energy Partners, LLC	6.3	15,625	18,125	
Persea Bio, LLC	7.0	3,500	4,000	
Ares Trading S.A.	6.4	40,789	47,178	
Intrexon Energy Partners II, LLC	6.9	13,833	15,833	
Intrexon T1D Partners, LLC	7.2	8,435	8,653	
Harvest start-up entities (1)	7.4	18,400	20,208	
Other	4.3	14,423	16,292	
Total		\$230,531	\$297,867	

(1) As of December 31, 2017 and December 31, 2016, the balance of deferred revenue for collaborations with Harvest start-up entities includes Thrive Agrobiotics, Inc.; Exotech Bio, Inc.; Relieve Genetics, Inc.; AD Skincare, Inc.; Genten Therapeutics, Inc.; and CRS Bio, Inc.

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If you have any questions concerning this letter or if you would like any additional information, please do not hesitate to call me at (301) 556-9900.

Very truly yours,

/s/ Rick L. Sterling

Rick L. Sterling Chief Financial Officer

CC: Donald P. Lehr, Intrexon Corporation
Matthew Keffer, PricewaterhouseCoopers LLP
William I. Intner, Hogan Lovells US LLP