

ALBIREO PHARMA, INC.

FORM 10-Q (Quarterly Report)

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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended March 31, 2017

OR

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

For the transition period from _____ to _____.

Commission File Number 001-33451

Albireo Pharma, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

10 Post Office Square, Suite 502 South, Boston, MA

(Address of principal executive offices)

90-0136863

(IRS Employer Identification No.)

02109

(Zip code)

Registrant's telephone number, including area code: (857) 254-5555

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	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

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

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

As of May 1, 2017, the registrant had 6,292,644 shares of common stock, \$0.01 par value per share, outstanding.

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All brand names, trademarks or service marks appearing in this quarterly report are the property of their respective owners. The Registrant’s use or display of another party’s trademark, service mark, trade dress or product in this quarterly report is not intended to, and does not, imply a relationship with, or endorsement or sponsorship of, the Registrant by such other party.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This quarterly report includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, which we refer to as the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, which we refer to as the Exchange Act, that relate to future events or our future financial performance. Any forward-looking statement involves known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to differ materially from any future results, levels of activity, performance or achievements expressed or implied by such forward-looking statement. Forward-looking statements include statements, other than statements of historical fact, about, among other things:

- the progress, scope, cost, duration or results of our development activities, nonclinical studies and clinical trials of A4250, elobixibat, A3384 or any of our other product candidates or programs, such as the target indication(s) for development, the size, design, population, conduct, cost, objective or endpoints of any clinical trial, or the timing for initiation or completion of or availability of results from any clinical trial (including our planned Phase 3 clinical trial of A4250 in patients with PFIC), for submission or approval of any regulatory filing (including a new drug application in Japan for elobixibat), for meeting with regulatory authorities, or, where applicable, for action or decision by EA Pharma;
- the potential benefits that may be derived from any of our product candidates;
- the timing of and our ability to obtain and maintain regulatory approval of our existing product candidates, any product candidates that we may develop, and any related restrictions, limitations, or warnings in the label of any approved product candidates;
- any payment that EA Pharma may make to us or any other action or decision that EA Pharma may make concerning our relationship with them;
- our future operations, financial position, revenues, costs, expenses, uses of cash, capital requirements or our need for additional financing; and
- our strategies, prospects, plans, expectations or objectives.

Words such as, but not limited to, “believe,” “expect,” “anticipate,” “estimate,” “forecast,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “targets,” “likely,” “will,” “would,” “could,” “should,” “continue,” “scheduled” and similar expressions or phrases, or the negative of those expressions or phrases, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Although we believe that we have a reasonable basis for each forward-looking statement contained in this report, we caution you that these statements are based on our projections of the future that are subject to known and unknown risks and uncertainties and other important factors that may cause our actual results, level of activity, performance or achievements expressed or implied by any forward-looking statement to differ. These risks, uncertainties and other factors include, among other things, our critical accounting policies and:

- whether preliminary data from our ongoing Phase 2 clinical trial of A4250 in children with chronic cholestasis will be confirmed following database lock;
- whether the results of our ongoing Phase 2 clinical trial of A4250 in children with chronic cholestasis will be sufficient to support advancement into a planned Phase 3 clinical trial of A4250 in patients with progressive familial intrahepatic cholestasis, or PFIC;
- whether the favorable findings from our ongoing Phase 2 clinical trial of A4250 in children with chronic cholestasis will be predictive of results from future clinical trials, including our planned Phase 3 clinical trial of A4250 in patients with PFIC;
- the timing and outcomes of interactions with regulatory authorities in the United States and Europe regarding the planned Phase 3 program for A4250 in patients with PFIC;
- the Phase 3 program that will be required to support regulatory approval of A4250 to treat patients with PFIC in the United States and Europe;
- whether our current cash resources will be sufficient to fund our planned Phase 3 clinical trial of A4250 in patients with PFIC to completion;
- the clinical trial designs and endpoints for our planned Phase 3 clinical trial of A4250 in patients with PFIC, or that will otherwise be required to obtain marketing approval for A4250 to treat patients with PFIC or other pediatric cholestatic liver diseases or for A3384 to treat bile acid malabsorption, or BAM;

- the conduct and results of clinical trials and nonclinical studies and assessments of A4250, elobixibat, A3384 or any of our other product candidates and programs, including the performance of third parties engaged to execute them and difficulties or delays in patient enrollment and data analysis;
- the size and growth of the markets and commercial opportunities for our product candidates, including A4250 in PFIC or other pediatric cholestatic liver diseases;
- whether A4250 will meet the criteria to receive a pediatric priority review voucher from the U.S. Food and Drug Administration, or FDA, and, if necessary, whether the pediatric priority review voucher program will be renewed beyond 2020;
- the significant control or influence that EA Pharma has over the development and commercialization of elobixibat in Japan and other licensed territories;
- whether we elect to seek a license or other partnering transaction with a third party for elobixibat in the United States or Europe;
- whether findings from nonclinical studies and clinical trials of IBAT inhibitors will be predictive of future clinical success for a future product candidate of ours in the treatment of nonalcoholic steatohepatitis, or NASH;
- the accuracy of our estimates regarding expenses, future revenues, uses of cash and capital requirements;
- our ability to obtain additional financing on reasonable terms, or at all;
- our ability to establish additional licensing, collaboration or similar arrangements on favorable terms and our ability to attract collaborators with development, regulatory and commercialization expertise;
- the success of competing third-party products or product candidates;
- our ability to successfully commercialize any approved product candidates, including their rate and degree of market acceptance;
- our ability to expand and protect our intellectual property estate;
- the timing and success of submission, acceptance and approval of regulatory filings, including in particular the new drug application submitted by EA Pharma in Japan for elobixibat for the treatment of chronic constipation, and any related restrictions, limitations or warnings in the label of any approved product candidates;
- regulatory developments in the United States and other countries;
- the performance of our third-party suppliers, manufacturers and contract research organizations and our ability to obtain alternative sources of raw materials; and
- our ability to attract and retain key personnel.

These and other risks and uncertainties are described in greater detail under the caption “Risk Factors” in Item 1A of Part I of our Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and in other filings that we make with the Securities and Exchange Commission, or SEC. As a result of the risks and uncertainties, the results or events indicated by the forward-looking statements may not occur. We caution you not to place undue reliance on any forward-looking statement.

In addition, any forward-looking statement in this quarterly report represents our views only as of the date of this quarterly report and should not be relied upon as representing our views as of any subsequent date. We anticipate that subsequent events and developments may cause our views to change. Although we may elect to update these forward-looking statements publicly at some point in the future, we specifically disclaim any obligation to do so, except as required by applicable law. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make.

PART I — FINANCIAL INFORMATION

Item 1. Financial Statements

Albireo Pharma, Inc.

Condensed Consolidated Balance Sheets
(in thousands, except share and per share data)
(unaudited)

	<u>March 31, 2017</u>	<u>December 31, 2016</u>
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 20,143	\$ 29,931
Trade receivables	1	26
Prepaid expenses and other assets	553	560
Other receivables	640	344
Total current assets	<u>21,337</u>	<u>30,861</u>
Property and equipment, net	111	21
Intangible assets	150	150
Goodwill	18,110	18,110
Other noncurrent assets	594	518
Total assets	<u>\$ 40,302</u>	<u>\$ 49,660</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Trade payables	\$ 1,309	\$ 972
Accrued expenses	3,949	7,548
Long-term debt, current portion	2,488	3,075
Warrant liability	1,202	844
Other liabilities	126	269
Total current liabilities	<u>9,074</u>	<u>12,708</u>
Long-term liabilities	21	—
Total liabilities	<u>9,095</u>	<u>12,708</u>
Stockholders' Equity:		
Common stock, \$0.01 par value per share — 200,000,000 authorized at March 31, 2017 and December 31, 2016; 6,292,644 issued and outstanding at March 31, 2017 and December 31, 2016	63	63
Additional paid in capital	62,743	61,338
Accumulated other comprehensive income	1,017	1,496
Accumulated deficit	(32,616)	(25,945)
Total stockholders' equity	<u>31,207</u>	<u>36,952</u>
Total liabilities and stockholders' equity	<u>\$ 40,302</u>	<u>\$ 49,660</u>

See accompanying notes to Condensed Consolidated Financial Statements.

Albireo Pharma, Inc.

Condensed Consolidated Statements of Operations

(in thousands, except share and per share data)

(unaudited)

	Three Months Ended March 31,	
	2017	2016
Revenue	\$ 1	\$ 124
Operating expenses:		
Research and development	2,812	1,597
General and administrative	3,212	1,306
Other (income) expense, net	74	(155)
Total operating expenses	6,098	2,748
Operating loss	(6,097)	(2,624)
Interest expense, net	(249)	(526)
Non-operating expense, net	(325)	(89)
Net loss before income taxes	(6,671)	(3,239)
Income tax	—	—
Net loss	\$ (6,671)	\$ (3,239)
Net loss per share - basic and diluted	\$ (1.06)	\$ (12.20)
Weighted-average shares outstanding - basic and diluted	6,292,644	265,560

See accompanying notes to Condensed Consolidated Financial Statements.

Albireo Pharma, Inc.

Condensed Consolidated Statements of Comprehensive Loss

(in thousands)

(unaudited)

	Three Months Ended March 31,	
	2017	2016
Net loss	\$ (6,671)	\$ (3,239)
Other comprehensive income:		
Foreign currency translation adjustment	(479)	(339)
Total other comprehensive (loss) income	(479)	(339)
Total comprehensive loss	\$ (7,150)	\$ (3,578)

See accompanying notes to Condensed Consolidated Financial Statements.

Albireo Pharma, Inc.

Condensed Consolidated Statements of Cash Flows

(in thousands)

(unaudited)

	Three Months Ended March 31,	
	2017	2016
Cash flows from operating activities:		
Net loss	\$ (6,671)	\$ (3,239)
Adjustments to reconcile net loss to net cash used in operating activities:		
Accretion of debt discount and amortization of issuance costs	171	277
Depreciation and amortization	5	4
Change in fair value of financial instruments	333	89
Stock-based compensation expense	1,405	—
Changes in operating assets and liabilities:		
Trade receivables	26	(434)
Prepaid expenses and other current assets	8	103
Other receivables	(300)	(16)
Other noncurrent assets	(77)	—
Trade payables	334	716
Taxes payable	—	—
Accrued expenses	(3,623)	143
Other liabilities and long term liabilities	(140)	16
Net cash used in operating activities	<u>(8,529)</u>	<u>(2,341)</u>
Cash flows from investing activities:		
Purchase of property, plant and equipment	(95)	(3)
Net cash used in investing activities	<u>(95)</u>	<u>(3)</u>
Cash flows from financing activities:		
Payments of principal on borrowings	(789)	(323)
Net cash used in financing activities	<u>(789)</u>	<u>(323)</u>
Effect of exchange rate changes on cash and cash equivalents	(375)	(41)
Net decrease in cash and cash equivalents	(9,788)	(2,708)
Cash and cash equivalents—beginning of period	29,931	5,120
Cash and cash equivalents—end of period	<u>\$ 20,143</u>	<u>\$ 2,412</u>
Supplemental disclosures of cash flow information:		
Cash paid for interest	\$ 78	\$ 199

See accompanying notes to Condensed Consolidated Financial Statements.

Notes to Condensed Consolidated Financial Statements

(unaudited)

1. Summary of significant accounting policies and basis of presentation

Organization and Share Exchange

Albireo Pharma, Inc. (Parent), together with its direct and indirect subsidiaries (the Company), is a clinical-stage biopharmaceutical company focused on the development and commercialization of novel bile acid modulators to treat orphan pediatric liver diseases and other liver and gastrointestinal diseases and disorders. The Company's clinical pipeline includes two Phase 2 product candidates, plus a third product candidate for which an application for regulatory approval has been filed in Japan. A4250, the Company's lead product candidate, is in development initially for the treatment of progressive familial intrahepatic cholestasis (PFIC), a rare, life-threatening genetic disorder affecting young children.

Prior to November 3, 2016, Parent's name was Bidel Inc. (Bidel). On that date, Bidel effected a 1-for-30 reverse stock split of its common stock (Reverse Stock Split) and completed a share exchange transaction with Albireo Limited, a limited company domiciled in London, United Kingdom, in accordance with the terms of an Amended and Restated Share Exchange Agreement, dated as of July 13, 2016, by and among Bidel, Albireo Limited and the shareholders and noteholders of Albireo Limited (the Agreement). Pursuant to the Agreement, each holder of shares or notes convertible into shares of Albireo Limited received newly issued shares of Bidel common stock and Albireo Limited became a wholly owned subsidiary of Bidel (the Transaction). Following completion of the Transaction, the business of Albireo Limited became the business of Parent and Parent changed its name to Albireo Pharma, Inc.

For accounting purposes, the Transaction was treated as a "reverse acquisition" and Albireo Limited was considered the accounting acquirer. Accordingly, with respect to periods prior to completion of the Transaction, the accompanying Condensed Consolidated Financial Statements reflect the historical results of Albireo Limited and its direct and indirect subsidiaries and do not include the historical results of Bidel prior to completion of the Transaction. All share and per share information for periods prior to completion of the Transaction has been retroactively adjusted to reflect the exchange of shares in the Transaction based on an exchange ratio of 0.06999 and, where applicable, the Reverse Stock Split.

Basis of presentation

The accompanying unaudited Condensed Consolidated Financial Statements have been prepared in accordance with U.S. generally accepted accounting principles (GAAP) for interim financial information, the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements and should be read in conjunction with the audited consolidated financial statements and accompanying notes included in Parent's Annual Report on Form 10-K for the fiscal year ended December 31, 2016. In the opinion of management, all adjustments (including normal recurring accruals) considered necessary for fair presentation have been included in the Condensed Consolidated Financial Statements. The results of operations for the three months ended March 31, 2017 are not necessarily indicative of the results that may be expected for the full fiscal year, any other interim period or any future fiscal year.

Any reference in these notes to applicable guidance is meant to refer to the authoritative GAAP as found in the Accounting Standards Codification (ASC) and Accounting Standards Update (ASU) of the Financial Accounting Standards Board (FASB). Any reference in these Condensed Consolidated Financial Statements to common stock or options or warrants to purchase shares of common stock of the Company means the common stock or options or warrants to purchase shares of common stock of Parent. Any reference in these Condensed Consolidated Financial Statements to common stock means, for periods prior to November 3, 2016, Ordinary shares of Albireo Limited.

The Company has reclassified certain amounts in the Condensed Consolidated Balance Sheet as of December 31, 2016 from Advances from licensees and from Common stock warrant liability to Other liabilities to conform to the current year presentation.

Principles of consolidation

The accompanying Condensed Consolidated Financial Statements include the accounts of Parent and its direct or indirect wholly owned subsidiaries, Albireo Limited, Albireo AB, Elobix AB, Albireo, Inc and, for periods following completion of the Transaction, Bidel UK Limited. All intercompany balances and transactions have been eliminated in consolidation.

Foreign currency translation

Functional and presentation currency

Items included in the financial statements of each entity comprising the Company are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The functional currency for Parent and Albireo, Inc. is the U.S. Dollar (USD), the functional currency for Albireo Limited, Elobix AB and Biodel U.K. is the Euro, and the functional currency for Albireo AB is the Swedish Krona (SEK). The Company consolidates its financial statements in USD.

Transactions and balances

Foreign currency transactions in each entity comprising the Company are remeasured into the functional currency of the entity using the exchange rates prevailing at the respective transaction dates. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at period-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized within Other income (expense), net in the Condensed Consolidated Statements of Operations.

The results and financial position of the Company and its subsidiaries that have a functional currency different from the presentation currency are translated into the presentation currency as follows:

- a. assets and liabilities presented are translated at the closing exchange rate as of March 31, 2017 and December 31, 2016;
- b. income and expenses for each statement of comprehensive loss are translated at the average exchange rates that are relevant for the period reported;
- c. significant transactions use the closing exchange rate on the date of the transaction; and
- d. all resulting exchange differences arising from such translation are recognized directly in other comprehensive loss and presented as a separate component of equity.

Use of estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts of assets, liabilities, revenues and expenses reported in the financial statements and accompanying notes. Management must apply significant judgment in this process. On an ongoing basis, the Company evaluates its estimates and assumptions, including but not limited to accruals, deferred tax assets and warrant liability estimated at fair value. Actual results could materially differ from these estimates.

Research and development expenses

Research and development costs are expensed as incurred and include primarily salaries, benefits and other staff-related costs; clinical trial and related clinical manufacturing costs; contract services and other outside costs.

The Company's preclinical studies and clinical trials are performed by third-party contract research organizations (CROs). Some of these expenses are billed monthly for services performed, while others are billed based upon milestones achieved. For preclinical studies, the significant factors used in estimating accruals include the percentage of work completed to date and contract milestones achieved. For clinical trial expenses, the significant factors used in estimating accruals include the number of patients enrolled and percentage of work completed to date or contract milestones achieved. The Company's estimates are highly dependent upon the timeliness and accuracy of the data provided by the respective CROs regarding the status of the contracted activity, with adjustments made when deemed necessary.

Revenue recognition

Revenue is generated from the receipt of upfront or license fees, milestone payments and payments for pharmaceutical ingredient or related procurement services that are made pursuant to out-licensing or related supply agreements.

Where an out-licensing arrangement of the Company involves the provision of multiple elements that may contain different remuneration arrangements such as upfront payments, milestone payments or product sales, the arrangement is assessed to determine whether separate delivery of the individual elements of such arrangement comprises more than one unit of accounting. The delivered elements are separated if (a) they have value to the licensee on a stand-alone basis, (b) there is objective and reliable evidence of the fair value of the undelivered element(s) and (c) if the arrangement includes a general right of return relative to the delivered element(s), delivery or performance of the undelivered element(s) is considered probable and is substantially in the control of the Company. Allocation of revenue to the different elements that require separate accounting is based on the separate selling prices

determined for each component, and total consideration is then allocated pro rata across the components of the arrangement. If separate selling prices are not available, the Company will use its best estimate of such selling prices, consistent with the overall pricing strategy and relevant market factors.

The Company has determined that each element of its out-licensing agreements is a separate and distinct unit of accounting, and, as such, the fair value of each element has been subscribed and recognized as follows:

- Nonrefundable upfront payments received from the Company's out-licensing agreements relating to technical expertise and intellectual property are recognized in income if all rights relating to the intellectual property and all obligations resulting from them have been relinquished under the contract terms and the Company has no continuing material obligation to perform under the agreement. However, if rights to the intellectual property continue to exist or obligations resulting from them have yet to be fulfilled, the payments received would be deferred until all rights and obligations have been fulfilled.
- Nonrefundable payments that are linked to the achievement of significant and substantive development or regulatory milestones in the research and development process are recognized as revenue upon the achievement of the specified milestone.
- Revenue and costs associated with procurement services associated with pharmaceutical ingredients are recognized net in revenue when title and risk of loss of the pharmaceutical ingredients have passed to the licensee as the Company is not the primary obligor and revenue and costs associated with related procurement services are recognized net in revenue when the Company is contractually bound.

As of March 31, 2017, the Company had a license agreement with EA Pharma Co., Ltd. (EA Pharma, formerly Ajinomoto Pharmaceuticals Co., Ltd.), entered into in 2012, to develop a select product candidate (elobixibat) for registration and subsequent commercialization in select markets. The Company satisfied its material performance obligations under the agreement in 2012, upon the delivery of technical expertise and intellectual property rights to EA Pharma.

Payments resulting from pharmaceutical ingredient or related procurement services are recognized as revenue as the activities are performed and are presented on a net basis. Revenue is recorded on a net basis because the Company acts as an agent, as it does not have discretion to change suppliers and does not perform any part of the services or manufacture of the subject pharmaceutical ingredients. The costs associated with these activities are netted against the related revenue in the Condensed Consolidated Statements of Operations.

For certain contingent payments under research and development arrangements, the Company recognizes revenue using the milestone method. Under the milestone method, a payment that is contingent upon the achievement of a substantive milestone is recognized in its entirety in the period in which the milestone is achieved. A milestone is an event: (i) that can be achieved based in whole or in part on either the Company's performance or on the occurrence of a specific outcome resulting from the Company's performance, (ii) for which there is substantive uncertainty at the date the arrangement is entered into that the event will be achieved and (iii) that would result in additional payments being due to the Company. The determination that a milestone is substantive requires estimation and judgment and is made at the inception of the arrangement. Milestones are considered substantive when the consideration earned from the achievement of the milestone is: (A) commensurate with either the Company's performance to achieve the milestone or the enhancement of value of the item delivered as a result of a specific outcome resulting from the Company's performance to achieve the milestone, (B) related solely to past performance and (C) reasonable relative to all deliverables and payment terms in the arrangement. In making the determination as to whether a milestone is substantive or not, management of the Company considers all facts and circumstances relevant to the arrangement, including factors such as the scientific, regulatory, commercial and other risks that must be overcome to achieve the milestone, the level of effort and investment required to achieve the milestone and whether any portion of the milestone consideration is related to future performance or deliverables. The Company has evaluated each milestone specified under its license agreement with EA Pharma and determined the milestone to be substantive.

Under the terms of the license agreement with EA Pharma, the Company was eligible as of March 31, 2017 to receive up to approximately (a) €13.3 million (\$14.2 million based on the Euro to USD exchange rate as of March 31, 2017) if specified regulatory events are achieved for elobixibat in Japan and (b) ¥3.5 billion (\$31.4 million based on the Japanese Yen to USD exchange rate as of March 31, 2017) if specified sales milestones are achieved for elobixibat following regulatory approval in any country in EA Pharma's licensed territory. The likelihood that the Company will achieve any particular milestone event with respect to elobixibat in any particular period, or at all, is uncertain, and the Company may not earn any future milestone payment with respect to elobixibat in any particular period, or ever. In addition, the Company is eligible to receive stepped royalties beginning in the high single digits on any future elobixibat product sales. The Company will recognize royalty revenue in the period of sale of elobixibat, based on the underlying contract terms, provided that the reported sales are reliably measurable and the Company has no remaining performance obligations, assuming all other revenue recognition criteria are met.

Loss contingencies

Loss contingencies are recorded as liabilities when it is probable that a liability has occurred and the amount of loss is reasonably estimable. Disclosure is required when there is a reasonable possibility that an ultimate loss will be material. Contingent liabilities are often resolved over long periods of time. Estimating probable losses requires analysis that often depends on judgments about potential actions by third parties, such as regulators.

Recently adopted accounting pronouncements

In March 2016, the FASB issued ASU No. 2016-09, “*Compensation—Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting*,” which changes the accounting for stock-based payment transactions, including income tax consequences, classification of awards as either equity or liabilities, and classification in the statement of cash flows. The new standard is effective for fiscal years beginning after December 15, 2016 and for interim periods therein. The Company adopted this standard on a prospective basis as of January 1, 2017, which had no impact on deferred tax balances, the consolidated statement of cash flows or otherwise on the Company’s consolidated financial statements.

Accounting pronouncements issued but not yet adopted

In May 2014, the FASB issued ASU No. 2014-09, “*Revenue from Contracts with Customers: (Topic 606)*.” This ASU affects any entity that either enters into contracts with customers to transfer goods or services or enters into contracts for the transfer of nonfinancial assets unless those contracts are within the scope of other standards (e.g., insurance contracts or lease contracts). This ASU will supersede the revenue recognition requirements in ASC Topic 605, “*Revenue Recognition*,” and most industry-specific guidance. In addition, the existing requirements for the recognition of a gain or loss on the transfer of nonfinancial assets that are not in a contract with a customer (e.g., assets within the scope of ASC Topic 360, “*Property, Plant, and Equipment*,” and intangible assets within the scope of ASC Topic 350, “*Intangibles-Goodwill and Other*”) are amended to be consistent with the guidance on recognition and measurement (including the constraint on revenue) in this ASU. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In July 2015, the FASB deferred the effective date of ASU 2014-09. This ASU will be effective for the Company on January 1, 2018 (for the Company’s 2018 fiscal year). The Company plans to adopt this standard effective January 1, 2018 using the modified retrospective approach, whereby the cumulative effect of applying the standard would be recognized at the date of initial application within retained earnings. The Company currently has one contract that generates revenue and will be impacted by the adoption of the new guidance. The Company is in the process of evaluating the impact this new guidance will have on its consolidated financial statements.

In February 2016, the FASB issued ASU 2016-02, “*Leases (Topic 842)*.” The new standard establishes a right-of-use (ROU) model that requires a lessee to record a ROU asset and a lease liability on the balance sheet for all leases with terms longer than 12 months. Leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the income statement. The new standard is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. The Company is currently evaluating the impact this ASU will have on its consolidated financial statements and currently does not plan to early adopt this standard.

In September 2016, the FASB issued ASU 2016-15, “*Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments (a consensus of the Emerging Issues Task Force)*,” which changes how certain cash receipts and cash payments are presented and classified in the statement of cash flows. The new standard is effective for fiscal years beginning after December 15, 2017 and for interim periods therein, with early adoption permitted. The Company is currently evaluating the impact this ASU will have on its consolidated financial statements.

2. Fair value of financial instruments

In measuring fair value, the Company evaluates valuation techniques such as the market approach, the income approach and the cost approach. A three-level valuation hierarchy, which prioritizes the inputs to valuation techniques that are used to measure fair value, is based upon whether such inputs are observable or unobservable.

Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect market assumptions made by the reporting entity. The three-level hierarchy for the inputs to valuation techniques is briefly summarized as follows:

Level 1—Observable inputs such as quoted prices (unadjusted) for *identical* instruments in active markets;

Level 2—Observable inputs such as quoted prices for *similar* instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, or model-derived valuations whose significant inputs are observable for substantially the full term of the assets or liabilities; and

Level 3—Unobservable inputs that reflect the reporting entity's estimate of assumptions that market participants would use in pricing the asset or liability.

The following tables present the fair values for the Company's financial instruments as well as the input levels used to determine these fair values as of March 31, 2017 and December 31, 2016. The Company values its current assets, which include trade and other receivables, and liabilities, which include advances from licensees and accounts payable, at historical cost, which approximates fair value. The fair value of the Loan Facility (see Note 7) was \$2.5 million as of March 31, 2017. The Company used the income approach to value the Loan Facility.

	Fair Value Level	Total Carrying Value on the Condensed Consolidated Balance Sheet		Fair Value Measurements	
		March 31, 2017	December 31, 2016	March 31, 2017	December 31, 2016
(in thousands)					
<i>Financial Instruments Recorded at Fair Value on a Recurring Basis</i>					
Current liabilities:					
Warrant liability	3	\$ 1,202	\$ 844	\$ 1,202	\$ 844

On December 17, 2014, the Company (Albireo Limited) executed a convertible loan instrument, which provided 1,251,000 €1.00 (\$1.12) unsecured convertible loan notes (2014 Convertible Loans), denominated in Euros, and was subsequently amended on October 1, 2015. On October 1, 2015, the Company executed a convertible loan instrument which provided 5,000,000 \$1.00 unsecured convertible loan notes (the 2015 Convertible Loans), denominated in USD. The Company estimated the fair value of the derivative liabilities associated with the 2014 Convertible Loans to be \$0.6 million (€0.5 million) as of March 31, 2016 and the fair value of the derivative liabilities associated with the 2015 Convertible Loans to be \$1.5 million as of March 31, 2016. For the three months ended March 31, 2016 the Company recorded a decrease of \$102,000 in the fair value of the 2014 Convertible Loans and 2015 Convertible Loans in its Condensed Consolidated Statement of Operations. Immediately prior to completion of the Transaction on November 3, 2016, the conversion rights for the 2014 Convertible Loans and the 2015 Convertible Loans were exercised. The Company recorded an increase of \$358,000 in the fair value of the Replacement Kreos Warrants (defined below) for the three months ended March 31, 2017, and an increase of \$191,000 in the fair value of the Warrants (defined below) for the three months ended March 31, 2016.

There were no transfers from one Level to another Level during the periods reported.

Warrants

In connection with the Loan Facility, the Company issued to Kreos Capital IV (Expert Fund) Limited (Kreos Capital) detachable warrants with a right to acquire shares at €720,000 (the Warrants). The Company recognized the Warrants at fair value at the time of execution of the Loan Facility and remeasured their fair value on a recurring basis thereafter. In connection with the Transaction, the Warrants were replaced with warrants to purchase 67,271 shares of the Company's common stock at an exercise price of \$11.78 per share (the Replacement Kreos Warrants). The Replacement Kreos Warrants were valued as of March 31, 2017 at \$1.2 million. The exchange was accounted for as a modification whereby the fair value of the Replacement Kreos Warrants was compared to the fair value of the Warrants immediately before the terms were modified, measured based on the market price of the common stock of the Company and other pertinent factors on the date of the modification. See Note 7 for a further description of the Warrants and Loan Facility.

Beginning with the quarter ended June 30, 2016, the Company estimated the fair value of the Warrants, primarily using the binomial method. The key assumptions used in the binomial method to estimate the fair value of the Replacement Kreos Warrants as of March 31, 2017 included the following:

	March 31, 2017
Stock price	\$ 24.00
Exercise price	\$ 11.78
Term (in years)	0.25
Risk-free interest rate	0.76%
Volatility	62.6%

The key assumptions used in the binomial method to estimate the fair value of the Replacement Kreos Warrants as of December 31, 2016, included the following:

	December 31, 2016
Stock price	\$ 17.73
Exercise price	\$ 11.78
Term (in years)	1.00
Risk-free interest rate	0.85%
Volatility	83.4%

The fair values of the Replacement Kreos Warrants were determined to be \$844,000 as of December 31, 2016 and \$1.2 million as of March 31, 2017, an increase of \$358,000. The values were each classified as a current liability because the Replacement Kreos Warrants are immediately exercisable.

The significant unobservable input used to estimate the fair value of the Replacement Kreos Warrants was the term (in years). The Company performed sensitivity analysis regarding this input and the value of the Replacement Kreos Warrants was found to be as follows using a hypothetical 0.5 year decrease or 0.5 year increase in the term (in thousands):

	March 31, 2017		December 31, 2016	
	+0.5	-0.5	+0.5	-0.5
Term	\$ 1,194	\$ 1,201	\$ 833	\$ 829

3. Commitments and contingencies

Operating lease commitments

Parent is a party to an Office Lease Agreement with SHIGO 10 PO Owner LLC for approximately 5,116 rentable square feet in the building located at 10 Post Office Square, Boston, Massachusetts, which serves as Parent's executive offices. The initial term of the lease is 62 months beginning on March 1, 2017. Parent has the option to extend the lease one time for an additional 5-year period. Following a two-month rent abatement period, Parent is obligated to make monthly rent payments in an amount beginning at \$20,997 and escalating by approximately 2% annually for the term of the lease. In addition, Parent is responsible under the lease for specified costs and charges, including certain operating expenses, utilities, taxes and insurance.

Albireo AB is a party to a 36-month building lease for approximately 5,113 square feet of office space in Gothenburg, Sweden. The current quarterly payment under the lease is 318,197 SEK (\$36,886 based on the SEK to USD exchange rate as of March 31, 2017) and subject to change based on applicable taxes and otherwise to increase based on changes in the Swedish Consumer Price Index (CPI). The current term of the lease expires in November 2019, but renews automatically thereafter for consecutive three-year terms unless notice of nonrenewal is given by either party at least nine months prior to the end of the then-current term, subject to Albireo AB's right to terminate the lease at any time upon six months' notice.

As of March 31, 2017, future minimum commitments under facility operating leases were \$1,381,000.

Rent expense recognized under the Company's operating leases was \$92,000 and \$27,000 for the three months ended March 31, 2017 and 2016, respectively.

Agreements with CROs

As of March 31, 2017, the Company had various agreements with CROs for the conduct of specified research and development activities and, based on the terms of the respective agreements, may be required to make future payments of up to \$4.7 million upon the completion of contracted work.

Other Commitments

In connection with the spin-off of Albireo Limited from AstraZeneca in 2008 and associated transfer agreements, the Company became party to an assignment agreement between AstraZeneca and a named inventor on a patent related to elobixibat. In connection with this agreement, the inventor is entitled upon the initial launch of a pharmaceutical product that constitutes an IBAT inhibitor in specified countries to a one-time “launch fee” payment of SEK 4.0 million (\$464,000, based on the SEK to USD exchange rate as of March 31, 2017).

4. Net loss per share

Basic net loss per share, or Basic EPS, is calculated by dividing the net loss by the weighted average number of shares of common stock outstanding. Diluted net loss per share, or Diluted EPS, is calculated by dividing the net loss by the weighted-average number of shares of common stock. If the Company were in a net income position, Diluted EPS would be calculated by dividing the net income by the weighted-average number of shares of common stock plus dilutive common stock equivalents outstanding.

The following table sets forth the computation of Basic EPS and Diluted EPS (in thousands, except for share and per share data):

	Three Months Ended March 31,	
	2017	2016
Basic and Diluted EPS:		
Numerator		
Net loss	\$ (6,671)	\$ (3,239)
Net loss	<u>\$ (6,671)</u>	<u>\$ (3,239)</u>
Denominator		
Weighted average number of shares	<u>6,292,644</u>	<u>265,560</u>
Number of shares used for basic and diluted EPS computation	6,292,644	265,560
Basic and Diluted EPS	<u>\$ (1.06)</u>	<u>\$ (12.20)</u>

As described in Note 1, “Organization and Share Exchange,” the share and per share information as of and for the period ended March 31, 2016 has been retroactively adjusted to reflect the exchange of shares in the Transaction based on an exchange ratio of 0.06999 and does not include the historical results of Bidel.

The following weighted-average outstanding common stock equivalents were excluded from the computation of Diluted EPS for the periods presented because including them would have been anti-dilutive:

	Three Months Ended March 31,	
	2017	2016
Convertible preference shares (on an as-converted basis)	—	2,754,386
Warrants to purchase convertible preference shares (on an as-converted basis)	—	177,215
Warrants to purchase common stock	67,271	67,271
Options to purchase common stock	735,329	—

5. Income taxes

The Company did not record a tax provision or benefit for the three months ended March 31, 2017 or March 31, 2016. The Company has continued to maintain a full valuation allowance against its net deferred tax assets. The Company has had an overall net operating loss position since its inception. The Company had approximately \$53.3 million in valuation allowances recorded against its deferred tax assets as of both March 31, 2017 and December 31, 2016.

The Company’s 2015 federal tax return, in respect of its predecessor (Bidel), is under examination.

6. Stock-based Compensation

On November 3, 2016, the Albireo Pharma, Inc. 2016 Equity Incentive Plan (the 2016 Equity Plan) was approved by the Company’s stockholders. The 2016 Equity Plan replaced Bidel’s 2010 Stock Incentive Plan, as amended (the 2010 Plan), in

connection with completion of the Transaction. The 2016 Equity Plan authorized the issuance of up to 635,000 shares, plus up to 249,059 shares issued if awards outstanding under the 2010 Plan were cancelled, forfeited or expired on or after the Transaction. All stock options outstanding under the 2010 Plan remain in full force and effect pursuant to their terms and the terms of the 2010 Plan. The 2016 Equity Plan is structured to comply with the requirements imposed by Section 162 (m) of the Internal Revenue Code of 1986, as amended, and related regulations.

Prior to completion of the Transaction, Albireo Limited adopted a share option plan on March 18, 2016, providing for the grant of share options to employees, consultants, officers and directors of Albireo Limited or its subsidiaries (the Pre-Transaction Plan). The Pre-Transaction Plan was amended by Albireo Limited on April 18, 2016. Pursuant to the terms of the Pre-Transaction Plan and prior to completion of the Transaction, Albireo Limited issued or granted options to purchase 246,666 Ordinary A shares. These options were classified as a liability on the basis that they were granted in a currency other than the functional currency of the employing entity of the recipients and were subject to revaluation until exercised or forfeited. The options were replaced with options to purchase shares of the Company's common stock in conjunction with the Transaction. The replacement was accounted for as a modification whereby the fair value of the replacement awards was compared to the fair value of the original award immediately before the terms were modified, measured based on the market price of the common stock of Bidel and other pertinent factors on the date of the modification. The options were then classified as equity awards with the liability reclassified to Additional paid in capital.

The Company's employment agreements with certain of its executives provide that, upon a change of control as defined, all of the then outstanding unvested options and any other rights to purchase Company shares will become fully vested and exercisable and any vesting-like restrictions will lapse in full, unless earlier vesting is provided for in the applicable program under which such option or other right to purchase Company shares was granted or under applicable law. The Transaction was not a change of control under the employment agreements.

The Company recognized stock-based compensation expense for employees in the accompanying Condensed Consolidated Statements of Operations as follows (in thousands):

	<u>Three Months Ended March 31,</u>	
	<u>2017</u>	<u>2016</u>
General and administrative	\$ 1,405	\$ —
Total stock-based compensation	<u>\$ 1,405</u>	<u>\$ —</u>

A summary of the outstanding stock options as of March 31, 2017 is as follows:

	<u>Stock Options Outstanding</u>			
	<u>Number of Shares</u>	<u>Weighted-Average Exercise Price Per Share</u>	<u>Weighted-Average Remaining Contractual Term (Years)</u>	<u>Aggregate Intrinsic Value (in thousands)</u>
Outstanding—December 31, 2016	694,869	\$ 26.71	7.35	\$ 6,435
Granted	200,400	\$ 19.12	—	\$ —
Expirations	(41,810)	\$ 181.84	—	\$ —
Outstanding—March 31, 2017	<u>853,459</u>	\$ 17.33	8.71	\$ 10,636
Exercisable—March 31, 2017	<u>254,621</u>	26.25	6.85	\$ 4,413
Vested or expected to vest at—March 31, 2017	<u>834,037</u>	17.71	8.70	\$ 10,189

Aggregate intrinsic value represents the difference between the estimated fair value of the underlying common stock and the exercise price of outstanding, in-the-money options.

Options to purchase 19,422 shares of common stock are performance based and vest upon the date the Company files a drug approval application for its product candidate A4250 for any orphan indication, if such filing occurs prior to a specified date. This unvested performance-based option is excluded from the vested or expected to vest balance as of March 31, 2017.

As of March 31, 2017, the total unrecognized compensation expense related to unvested options was \$7.5 million, which the Company expects to recognize over a weighted average vesting period of 2.6 years.

In determining the estimated fair value of the stock-based awards, the Company uses the Black-Scholes option pricing model and assumptions discussed below. Each of these inputs is subjective and generally requires significant judgment to determine.

The fair value of stock option awards granted during the three months ended March 31, 2017, was estimated with the following assumptions:

	As of March 31, 2017
Price per share of common stock	\$18.54-\$19.19
Expected term (in years)	6.0-6.1
Risk-free interest rate	2.12%
Expected volatility	78.4
Dividend rate	0%

The Company recorded additional stock-based compensation expense of \$788,000 in the general and administrative line in its Condensed Consolidated Statement of Operations for the three months ended March 31, 2017. The additional expense was attributable to the correction of an understatement of expense recorded for the year ended December 31, 2016 due to the use of incorrect service periods for stock options. The Company determined the error was not material to any prior period and does not expect the correction in the three months ended March 31, 2017 to be material to its 2017 annual financial statements.

7. Long-term debt

	March 31, 2017	December 31, 2016
	(in thousands)	
Long-term debt, including current portion:		
Loan Facility	\$ 2,488	\$ 3,075
Total debt	2,488	3,075
Less: current portion	(2,488)	(3,075)
Long-term debt	\$ —	\$ —

Loan Facility

The Company (in particular, Albireo Limited) executed a loan agreement (Loan Facility) with Kreos Capital IV (UK) Limited (Kreos UK) in December 2014, at which time the Company borrowed €6.0 million (\$7.3 million). The Loan Facility has a term of 36 months with principal and interest payable monthly, with an annual interest rate of 11.5%. In addition, the Company is required to make an end-of-loan payment equal to 1.25% of the amounts lent by Kreos UK. The amount outstanding as of March 31, 2017 was \$2.5 million (€2.3 million). The outstanding amount is due and payable in average monthly installments of €249,000 (\$273,000, based on the Euro to USD exchange rate as of March 31, 2017) and an end of loan payment of €670,000 (\$736,000, based on the Euro to USD exchange rate as of March 31, 2017) due and payable on December 1, 2017.

The Company is accreting the debt discount of \$233,000 remaining as of March 31, 2017 over the remaining nine months of the loan term. Interest expense included \$171,000 and \$230,000 of discount accretion for the three months ended March 31, 2017 and 2016, respectively.

The Company has the option to redeem all outstanding amounts. Upon the occurrence of a sale or a change of control, the Company shall redeem the principal, accrued interest and other fees, and remaining interest payments calculated until the end of the term, discounted by 5%.

Parent's subsidiary, Albireo Limited, has pledged its shares in its subsidiary, Albireo AB, and has granted a debenture (incorporating fixed and floating charges) over its assets by way of security for the obligations it owes under the Loan Facility.

The Loan Facility is guaranteed by Parent and two of Parent's indirect subsidiaries, Elobix AB and Albireo AB, as the principal obligors that have severally agreed to indemnify and keep indemnified Kreos UK in full and on demand from and against all and any losses, costs, claims, liabilities, damages, demands and expenses suffered or incurred by Kreos UK arising out of, or in connection with, any failure of the Company to perform or discharge any of its obligations or liabilities.

In addition, Parent, Elobix AB and Albireo AB have agreed to pledge the following:

- Parent shares in Albireo Limited
- Albireo AB shares in Elobix AB
- Albireo AB bank accounts
- Albireo AB A4250 patents
- Elobix elobixibat patents
- Elobix bank accounts

Although the bank accounts of Albireo AB and Elobix AB were pledged, Albireo AB and Elobix AB are not restricted from using the cash for working capital requirements.

The Company also pledged its present and future rights to fees, royalties and other payments due and payable any time under its license agreement with EA Pharma to Kreos UK in support of the Loan Facility.

On February 4, 2016, the Company (in particular, Albireo Limited) entered a Deed of Variation related to the Loan Facility. Under the terms of the Deed of Variation, the timing of principal payments was changed such that €512,000 (\$562,000, based on the Euro to USD exchange rate as of March 31, 2017) of the payments was deferred to become payable at the end of the loan term. The total principal due under the Loan Facility remained unchanged. In addition, there were no changes to the maturity date or the stated interest rate.

The Company accounted for the amendment to the Loan Facility prospectively in accordance with ASC 470-50, *Modifications and Extinguishments*, as there were no concessions granted to the Company by the lender and the difference in cash flows between the original and amended loans did not change by more than 10% per lender. As a result of the modification, the transaction costs incurred in connection with the amendment were expensed when incurred and the effective interest rate calculation was updated, resulting in an effective interest rate of 39.3%.

In connection with the Loan Facility, the Company issued to Kreos Capital detachable warrants with a right to acquire shares at €720,000 to purchase certain shares of the Company's stock under specified circumstances (the Warrants).

In connection with the Transaction, the Warrants were replaced with a warrant to purchase 67,271 shares of the Company's common stock at an exercise price of \$11.78 per share (Replacement Kreos Warrants). The Company estimated the fair value of the Replacement Kreos Warrants as of March 31, 2017 to be \$1.2 million. The exchange was accounted for as a modification whereby the fair value of the Replacement Kreos Warrants was compared to the fair value of the Warrants immediately before the terms were modified, measured based on the market price of the common stock of the Company and other pertinent factors on the date of the modification.

The term of the Replacement Kreos Warrants is five years. After the Transaction, the Replacement Kreos Warrants were classified as liabilities because the amount of shares used to settle the Replacement Kreos Warrants is not fixed, as the Replacement Kreos Warrants contain certain price protections. Subsequent to the replacement, fair value of the Replacement Kreos Warrants is remeasured at each reporting period until settled, with any changes in fair value recorded in the consolidated statement of operations.

8. Derivatives

The following disclosures summarize the fair value of derivative instruments not designated as hedging instruments in the Condensed Consolidated Balance Sheet as of March 31, 2017 and the effects of changes in fair value related to those derivative instruments on the Condensed Consolidated Statements of Operations for the three months ended March 31, 2017 (in thousands):

Derivative Instruments Not Designated as Hedging Instruments	Balance Sheet Location	March 31, 2017	December 31, 2016
Warrants liability	Current liabilities	1,202	844
Effect of Derivative Instruments Not Designated as Hedging Instruments			
	Location of Gains (Losses) Recognized	Three Months Ended March 31,	
		2017	2016
Derivative liabilities	Non-operating expense, net	\$ —	\$ 102
Warrants liability	Non-operating expense, net	(358)	(191)

The derivative liabilities related to the conversion feature embedded in the 2014 Convertible Loans and 2015 Convertible Loans have been separately recognized at their respective fair values. The Company determined that embedded features met the definition of a derivative and were required to be recorded at fair value at issuance and remeasured for each reporting period thereafter.

9. Goodwill

On November 3, 2016, the Company completed the Transaction pursuant to the Agreement, which resulted in goodwill recorded of \$18.1 million. The Company has performed its assessment for indicators of impairment and concluded that there were no such indicators as of March 31, 2017. There was no change in the carrying amount of goodwill for the three months ended March 31, 2017.

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

You should read the following discussion and analysis of our financial condition and results of operations together with our condensed consolidated financial statements and the related notes included elsewhere in this quarterly report and our audited financial statements and 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, 2016, filed with the SEC. In addition to historical information, the following discussion contains forward-looking statements that involve risks, uncertainties and assumptions. Our actual results, performance or experience could differ materially from what is indicated by any forward-looking statement due to various important factors, risks and uncertainties, including, but not limited to, those set forth under "Cautionary Note Regarding Forward-Looking Statements" included elsewhere in this quarterly report or under "Risk Factors" in Item 1A of Part I of our Annual Report on Form 10-K for the year ended December 31, 2016 or other filings that we make with the SEC.

Overview

Prior to November 3, 2016, we were a specialty biopharmaceutical company known as Bidel Inc. that historically had been focused on the development and commercialization of innovative treatments for diabetes. On November 3, 2016, we completed a share exchange transaction, or the Transaction, pursuant to an Amended and Restated Share Exchange Agreement dated July 13, 2016 that we entered into with Albireo Limited and the shareholders and noteholders of Albireo Limited. Upon the completion of the Transaction, we changed our name to "Albireo Pharma, Inc.," the business of Albireo Limited became our business and we became a biopharmaceutical company focused on the development and commercialization of novel bile acid modulators to treat orphan pediatric liver diseases and gastrointestinal disorders where improper flow or absorption of bile causes serious medical conditions for which there is high unmet need. The initial target indication for our lead product candidate, A4250, is progressive familial intrahepatic cholestasis, or PFIC, a rare, life-threatening genetic disorder affecting young children for which there is currently no approved drug treatment. We have completed a Phase 2 clinical trial in children with chronic cholestasis and we plan to initiate a Phase 3 clinical trial in patients with PFIC in the second half of 2017. In addition to PFIC and subject to obtaining additional capital, we plan to consider conducting future clinical development of A4250 as a treatment for other pediatric cholestatic liver diseases and disorders. Our clinical-stage product candidates in addition to A4250 include elobixibat, for which our licensee has filed a new drug application for approval in Japan to treat chronic constipation, and A3384, which is in development to treat bile acid malabsorption. We also have a preclinical program in nonalcoholic steatohepatitis, or NASH.

For accounting purposes, the Transaction was treated as a "reverse acquisition" and Albireo Limited was considered the accounting acquirer. Accordingly, with respect to periods prior to completion of the Transaction, this discussion and analysis reflects the historical results of Albireo Limited and its direct and indirect subsidiaries and does not include the historical results of Bidel prior to completion of the Transaction.

Bidel was incorporated in December 2003 and commenced active operations in January 2004. Albireo Limited's business began when Albireo Limited was spun out of AstraZeneca AB in 2008.

Since inception, we have incurred significant operating losses. As of March 31, 2017, we had an accumulated deficit of \$32.6 million. We expect to continue to incur significant expenses and increasing operating losses for at least the next few years as we continue our development of, and seek marketing approvals for, our product candidates, prepare for and begin the commercialization of any approved products, and add infrastructure and personnel to support our product development efforts and operations as a public company in the United States.

As a clinical-stage company, our revenues, expenses and results of operations are likely to fluctuate significantly from quarter to quarter and year to year. Accordingly, we believe that period-to-period comparisons of our results of operations should not be relied upon as indicative of our future performance.

As of March 31, 2017, we had \$20.1 million in cash and cash equivalents.

Financial Operations Overview

The following discussion sets forth certain components of our consolidated statements of operations as well as factors that impact those items.

Revenue

We generate revenue primarily from the receipt of upfront or license fees, milestone payments and payment for pharmaceutical ingredient or related procurement services that are made pursuant to license agreements or related supply agreements. License agreements with commercial partners generally include nonrefundable upfront fees and milestone payments, the receipt of which is

dependent upon the achievement of specified development, regulatory or commercial milestone events, as well as royalties on product sales of licensed products, if and when such product sales occur, and payments for pharmaceutical ingredient or related procurement services. For these agreements, management applies judgment in the allocation of total agreement consideration to the separately identifiable components on a reliable basis that reasonably reflects the selling prices that might be expected to be achieved in stand-alone transactions.

Operating Expenses

Research and Development Expenses

Research and development expenses consist primarily of personnel costs (including salaries, benefits and other staff-related costs) for employees in research and development functions, costs associated with preclinical and clinical development services, including clinical trials and related manufacturing costs, third-party contract research organizations, or CROs, and related services and other outside costs, including fees for third-party professional services such as consultants. Our preclinical studies and clinical studies are performed by CROs. We expect to continue to focus our research and development efforts on preclinical studies and clinical trials of our product candidates. As a result, we expect our research and development expenses to continue to increase for the foreseeable future.

Our direct research and development expenses are tracked on a program-by-program basis and consist primarily of external costs such as fees paid to CROs and others in connection with our preclinical and clinical development activities and related manufacturing. We do not allocate employee costs or facility expenses, including depreciation or other indirect costs, to specific product development programs because these costs are deployed across multiple product development programs and, as such, are not separately classified.

Successful development of our current and potential future product candidates is highly uncertain. Completion dates and costs for our programs can vary significantly by product candidate and are difficult to predict. As a result, we cannot estimate with any degree of certainty the costs we will incur in connection with development of any of our product candidates. We anticipate we will make determinations as to which programs and product candidates to pursue and how much funding to direct to each program and product candidate on an ongoing basis in response to the results of ongoing and future clinical trials, our ability to enter into licensing, collaboration and similar arrangements with respect to current or potential future product candidates, the success of research and development programs and our assessments of commercial potential.

General and Administrative Expenses

General and administrative expenses consist primarily of personnel costs (including salaries and benefits) for our executive, finance and other administrative employees. In addition, general and administrative expenses include fees for third-party professional services, including consulting, information technology, legal and accounting services and other corporate expenses and allocated overhead.

Critical Accounting Policies and Estimates

Our management's discussion and analysis of financial condition and results of operations is based on our unaudited condensed consolidated financial statements, which have been prepared in accordance with United States generally accepted accounting principles for interim financial information. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues and expenses. We base our estimates and assumptions on historical experience and on various assumptions that we believe are reasonable under the circumstances, and we evaluate them on an ongoing basis. These estimates and assumptions form the basis for making judgments about the carrying values of assets and liabilities and the recording of revenues and expenses that are not readily apparent from other sources. Actual results and experiences may differ materially from these estimates and judgments. In addition, our reported financial condition and results of operations could vary if new accounting standards are enacted that are applicable to our business.

Our significant accounting policies are described in Note 1 to our audited consolidated financial statements included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and in Note 1 to our condensed consolidated financial statements included in this quarterly report. We believe that our accounting policies relating to revenue recognition, research and development expenses, stock-based compensation and fair value of financial instruments are the most critical to understanding and evaluating our reported financial results. We have identified these policies as critical because they both are important to the presentation of our financial condition and results of operations and require us to make judgments and estimates on matters that are inherently uncertain and may change in future periods. These policies are described under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Estimates" in our Annual Report on Form 10-K for the year ended December 31, 2016.

Results of Operations

Three Months Ended March 31, 2017 and March 31, 2016

Revenue

	Three Months Ended March 31,		Change
	2017	2016	\$
	(in thousands)		
Revenue	\$ 1	\$ 124	\$ (123)

Revenue was \$1,000 for the three months ended March 31, 2017 compared with \$124,000 for the three months ended March 31, 2016, a decrease of \$123,000. The decrease was due to a reduction in procurement services performed for EA Pharma.

Research and development expenses

	Three Months Ended March 31,		Change
	2017	2016	\$
	(in thousands)		
Research and development expenses	\$ 2,812	\$ 1,597	\$ 1,215

Research and development expenses were \$2.8 million for the three months ended March 31, 2017 compared with \$1.6 million for the three months ended March 31, 2016, an increase of \$1.2 million. The higher research and development expenses were principally due to an increase of \$891,000 in costs related to A4250, mainly in connection with preparatory activities in the 2017 period for a planned Phase 3 clinical trial in patients with PFIC as well as the conduct in the 2017 period of a clinical study to assess absorption, distribution, metabolism and excretion and preclinical drug-drug interaction studies, and an increase of \$364,000 in other project costs attributable to research and development consulting services and patent expense.

The following table summarizes our principal product development programs and the out-of-pocket third-party expenses incurred with respect to each clinical-stage product candidate and our preclinical programs for the three months ended March 31, 2017 and 2016.

	Three Months Ended March 31,		Change
	2017	2016	\$
	(in thousands)		
Direct third-party project costs:			
A4250	\$ 1,598	\$ 707	\$ 891
Elobixibat	3	90	(87)
A3384	46	—	46
Preclinical	23	80	(57)
Total	\$ 1,670	\$ 877	\$ 793
Other project costs (1):			
Personnel costs	\$ 463	\$ 405	\$ 58
Other costs (2)	679	315	364
Total	\$ 1,142	\$ 720	\$ 422
Total research and development costs	\$ 2,812	\$ 1,597	\$ 1,215

(1) Other project costs are leveraged across multiple programs.

(2) Other costs include facility, supply, consultant and overhead costs that support multiple programs.

General and administrative expenses

	Three Months Ended March 31,		Change
	2017	2016	\$
	(in thousands)		
General and administrative expenses	\$ 3,212	\$ 1,306	\$ 1,906

General and administrative expenses were \$3.2 million for the three months ended March 31, 2017 compared with \$1.3 million for the three months ended March 31, 2016, an increase of \$1.9 million. The higher general and administrative expenses were

principally attributable to increases for the 2017 period of \$1.4 million in stock-based compensation expense, which included \$788,000 attributable to the correction of an understatement of stock compensation expense recorded for the year ended December 31, 2016 due to the use of incorrect service periods in determining the expense, and \$500,000 in other compensation expense resulting from the hiring of additional executive personnel in the last nine months of 2016. We expect that we will incur increased accounting, audit, legal, regulatory, compliance, and investor and public relations expenses associated with operating as a public company for future periods.

Other (income) expense, net

	<u>Three Months Ended March 31,</u>		<u>Change</u>
	<u>2017</u>	<u>2016</u>	<u>\$</u>
		(in thousands)	
Other (income) expense, net	\$ 74	\$ (155)	\$ 229

Other (income) expense, net totaled \$74,000 of expense for the three months ended March 31, 2017 compared with income of \$155,000 for the three months ended March 31, 2016, a difference of \$229,000. The difference resulted from changes in currency exchange rates between the two periods.

Interest expense, net

	<u>Three Months Ended March 31,</u>		<u>Change</u>
	<u>2017</u>	<u>2016</u>	<u>\$</u>
		(in thousands)	
Interest expense, net	\$ (249)	\$ (526)	\$ 277

Interest expense, net totaled \$249,000 for the three months ended March 31, 2017 compared with \$526,000 for 2016, a decrease of \$277,000. The lower net interest expense was attributable to the conversion of convertible loan notes issued in 2014 and 2015 into equity in connection with the completion of the Transaction in November 2016 and a reduction in the amount of interest paid under our loan facility.

Non-operating expense, net

	<u>Three Months Ended March 31,</u>		<u>Change</u>
	<u>2017</u>	<u>2016</u>	<u>\$</u>
		(in thousands)	
Non-operating expense, net	\$ (325)	\$ (89)	\$ (236)

Non-operating expense, net was \$325,000 for the three months ended March 31, 2017 compared with \$89,000 for the three months ended March 31, 2016, an increase of \$236,000. The increase reflected a change in the mark-to-market adjustments on warrants.

Liquidity and Capital Resources

Sources of Liquidity

We do not expect to generate revenue from product sales unless and until we or a licensee obtains regulatory approval of and commercializes our current or any potential future product candidates. We anticipate that we will continue to generate losses for the foreseeable future, and we expect the losses to increase as we continue the development of and seek regulatory approvals for our product candidates. We are subject to all of the risks applicable to the development of new pharmaceutical products and may encounter unforeseen expenses, difficulties, complications, delays and other unknown factors that may harm our business. We expect that, having become a public company upon completion of the Transaction in November 2016, we will incur additional costs associated with operating as a public company and anticipate that we will need substantial additional funding to complete development of and potentially commercialize our product candidates.

Our operations have historically been financed primarily through issuances of preference shares or convertible debt, upfront fees paid upon entering into license agreements, payments received upon the achievement of specified milestone events under license agreements, grants and venture debt borrowings. Our primary uses of capital are, and we expect will continue to be, personnel-related costs, third party expenses associated with our research and development programs, including the conduct of clinical trials, and manufacturing-related costs for our product candidates.

In November 2016, we completed the Transaction and, immediately prior to the Transaction, an associated equity financing of \$10.0 million. In the Transaction, we acquired cash of approximately \$20 million, net of Bidel's commitments, that Bidel had on hand on the closing date.

In December 2014, we (Albireo Limited) entered into a loan facility agreement with Kreos Capital IV (UK) Limited, or Kreos, enabling us to borrow up to €6.0 million (\$7.3 million). The loan facility has a term of 36 months, with principal and interest payable monthly after an initial six-month interest-only period, at an annual rate of 11.5%. In addition, we are required to make an end-of-loan payment equal to 1.25% of the amounts lent by Kreos. On the date of the agreement, we borrowed the full €6.0 million (\$7.3 million). In February 2016, we amended the loan facility to reduce principal repayments for a period of six months. As of March 31, 2017, the outstanding balance due on the loan facility, including interest and the end-of-loan payment, was €2.3 million (\$2.5 million based on the Euro to USD exchange rate as of March 31, 2017).

In April 2012, we (Albireo AB) entered into a license agreement with EA Pharma for the development and commercialization of elobixibat in specified countries in Asia. Albireo AB subsequently transferred the agreement to its wholly owned subsidiary, Elobix AB, and the agreement was amended in January 2015 and April 2016. As of March 31, 2017, we have received approximately \$34.7 million in upfront and milestone payments from EA Pharma under this agreement. We are eligible to receive additional payments of up to €13.3 million under the amended agreement (\$14.2 million based on the Euro to USD exchange rate as of March 31, 2017) if specified regulatory events are achieved for elobixibat and up to ¥3.5 billion (\$31.4 million based on the Japanese Yen to USD exchange rate as of March 31, 2017) if specified sales milestones are achieved for elobixibat. We are also eligible for stepped royalties at rates beginning in the high single digits on any future elobixibat product sales.

As of March 31, 2017, our cash and cash equivalents were \$20.1 million.

Cash Flows

Three Months Ended March 31, 2017 and March 31, 2016

	Three Months Ended March 31,	
	2017	2016
	(in thousands)	
Net cash used in:		
Operating activities	\$ (8,529)	(2,341)
Investing activities	(95)	(3)
Financing activities	(789)	(323)
Total	\$ (9,413)	\$ (2,667)
Effect of exchange rate changes on cash and cash equivalents	(375)	(41)
Net decrease in cash and cash equivalents	<u>(9,788)</u>	<u>(2,708)</u>

Operating activities

Net cash used in operating activities for the three months ended March 31, 2017 was \$8.5 million compared to \$2.3 million for the corresponding 2016 period. The increase was primarily due to higher accrued expenses, mainly for severance payable to former Bidel personnel, and stock-based compensation expense, partially offset by a decrease in trade payables.

Investing activities

Net cash used in investing activities was \$95,000 for the three months ended March 31, 2017 compared to \$3,000 for the corresponding 2016 period. The increase was due to greater property and equipment purchases in connection with our move to different offices in Boston.

Financing activities

Net cash used in financing activities for the three months ended March 31, 2017 was \$789,000 compared to \$323,000 for the corresponding 2016 period. The increase was due to higher principal payments under the loan facility with Kreos, as the terms were amended in February 2016 to reduce principal payments for six months.

Funding Requirements

Cash used to fund operating expenses is affected by the timing of when we pay expenses, as reflected in the change in our outstanding accounts payable and accrued expenses. We believe that our existing cash and cash equivalents will be sufficient to meet our projected operating requirements through at least mid 2018. However, our operating plans may change as a result of many factors, including those described below and we may need additional funds sooner than planned to meet operational needs and capital requirements. In addition, if the conditions for raising capital are favorable we may seek to raise additional funds at any time.

Our future funding requirements will depend on many factors, including the following:

- the costs, design, timing of initiation, duration and any potential delays of the planned Phase 3 clinical trial of A4250;
- the scope, number, progress, duration, cost, results and timing of clinical trials and nonclinical studies of our current or future product candidates;
- whether and to what extent milestone events are achieved under our license agreement with EA Pharma or any potential future licensee or collaborator;
- the outcomes and timing of regulatory reviews, approvals or other actions;
- our ability to obtain marketing approval for our product candidates;
- our ability to establish and maintain additional licensing, collaboration or similar arrangements on favorable terms and whether and to what extent we retain development or commercialization responsibilities under any new licensing, collaboration or similar arrangement;
- the success of any other business, product or technology that we acquire or in which we invest;
- our ability to maintain, expand and defend the scope of our intellectual property portfolio;
- our ability to manufacture any approved products on commercially reasonable terms;
- our ability to establish a sales and marketing organization or suitable third-party alternatives for any approved product;
- the number and characteristics of product candidates and programs that we pursue;
- the costs of acquiring, licensing or investing in businesses, product candidates and technologies;
- our need and ability to hire additional management and scientific and medical personnel;
- the costs to operate as a public company in the United States, including the need to implement additional financial and reporting systems and other internal systems and infrastructure for our business;
- market acceptance of our product candidates, to the extent any are approved for commercial sale; and
- the effect of competing technological and market developments.

We cannot determine precisely the completion dates and related costs of our development programs due to inherent uncertainties in outcomes of clinical trials and the regulatory approval process. We cannot be certain that we will be able to successfully complete our research and development programs or establish licensing, collaboration or similar arrangements for our product candidates. Our failure or the failure of any current or potential future licensee to complete research and development programs for our product candidates could have a material adverse effect on our financial position or results of operations.

We expect to continue to incur losses. Our ability to achieve and maintain profitability is dependent upon the successful development, regulatory approval and commercialization of our product candidates and achieving a level of revenues adequate to support our cost structure. We may never achieve profitability.

If the conditions for raising capital are favorable, we may seek to finance future cash needs through public or private equity or debt offerings or other financings. We filed a universal shelf registration statement on Form S-3 with the SEC, which was declared effective on January 10, 2017 and pursuant to which we registered for sale up to \$100 million of any combination of our common stock, preferred stock, debt securities, warrants, rights, purchase contracts and/or units from time to time and at prices and on terms that we may determine. Additionally, if we need to raise additional capital to fund our operations, complete our ongoing and planned clinical trials, or potentially commercialize our product candidates, we may likewise seek to finance future cash needs through public or private equity or debt offerings or other financings. The necessary funding may not be available to us on acceptable terms or at all.

The sale of additional equity or convertible debt securities may result in significant dilution to our stockholders, and the terms may include liquidation or other preferences that adversely affect the rights of our stockholders. The incurrence of additional debt

financing would result in debt service obligations and the instruments governing such debt may provide for operating and financing covenants that would restrict our operations. We may also seek to finance future cash needs through potential future licensing, collaboration or similar arrangements. These arrangements may not be available on acceptable terms or at all, and 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. If adequate funds are not available, we may be required to delay, reduce the scope of or eliminate our development programs or obtain funds through third-party arrangements that may require us to relinquish rights to certain product candidates that we might otherwise seek to develop or commercialize independently.

Off-Balance Sheet Arrangements

We have no off-balance sheet arrangements.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

Not required for smaller reporting companies.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our principal executive officer and principal financial officer, after evaluating the effectiveness of our disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) as of the end of the period covered by this Form 10-Q, have concluded that, based on such evaluation and as a result of the previously reported material weakness discussed below, our disclosure controls and procedures were not effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms, and is accumulated and communicated to our management, including our principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

Material Weakness and Remediation of Material Weakness

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. As previously reported, in connection with the audit of our 2016 financial statements, we and our independent registered public accounting firm identified a material weakness in our 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 our annual or interim financial statements will not be prevented or detected on a timely basis.

The material weakness identified was a lack of controls over the identification and review of accounting issues involving significant judgment or estimates in the financial statement closing process resulting from our limited in-house accounting and finance team. We currently rely on consultants and external advisors to provide assistance with financial reporting in accordance with the requirements of U.S. generally accepted accounting principles (GAAP) and the rules and regulations of the SEC, and these consultants and external advisors may not have direct knowledge of all of our business, transactions and contracts. Specifically, we and our independent registered public accounting firm determined that we did not have sufficient resources with GAAP and SEC financial reporting knowledge to ensure a timely and sufficient financial statement close process that includes resolution of complex accounting issues involving significant judgment and estimates.

We are working to remediate the material weakness. In particular, we hired a full-time chief financial officer in July 2016 and a controller in March 2017 and plan to develop and implement formal policies, processes and documentation procedures relating to our financial reporting. We estimate that the material weakness will be remediated prior to filing our annual report on Form 10-K for the year ending December 31, 2017.

Changes in Internal Control over Financial Reporting

Other than as described above, there were no changes in our internal control over financial reporting, identified in connection with the evaluation of such internal control that occurred during the quarter ended March 31, 2017 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 6. Exhibits

The exhibits listed in the accompanying exhibit index are filed as part of this quarterly report.

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.

ALBIREO PHARMA, INC.

Dated: May 11, 2017

By: /s/ Ronald H.W. Cooper
Ronald H.W. Cooper
President and Chief Executive Officer

Exhibit No.	Description	Filed Herewith	Incorporated by Reference Herein from Form or Schedule	Filing Date	SEC File/ Req. Number
10.1*	Albireo Pharma, Inc. Nonemployee Director Compensation Policy dated January 23, 2017.	X			
10.2	Office Lease Agreement, dated as of February 7, 2017, by and between Albireo Pharma, Inc. and SHIGO 10 PO Owner LLC		Form 8-K (Exhibit 10.1)	2/10/2017	001- 33451
31.1	Certification of the Registrant's Principal Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X			
31.2	Certification of the Registrant's Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X			
32.1	Certification of Principal Executive Officer and Principal Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X			
101	The following materials from the Registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017, formatted in XBRL (eXtensible Business Reporting Language): (i) Condensed Consolidated Balance Sheets (unaudited) at March 31, 2017 and December 31, 2016, (ii) Condensed Consolidated Statements of Operations (unaudited) for the three months ended March 31, 2017 and 2016, (iii) Condensed Consolidated Statements of Comprehensive Loss (unaudited) for the three months ended March 31, 2017 and 2016, (iv) Condensed Consolidated Statements of Cash Flows (unaudited) for the three months ended March 31, 2017 and 2016, and (v) Notes to Condensed Consolidated Financial Statements (unaudited).	X			

* Management contract or compensatory plan or arrangement.

ALBIREO PHARMA, INC.

NONEMPLOYEE DIRECTOR COMPENSATION POLICY

(Adopted January 23, 2017)

The Board of Directors of Albireo Pharma, Inc. (the “Company”) has approved the following Nonemployee Director Compensation Policy (this “Policy”) to provide an inducement to obtain and retain the services of qualified persons to serve as members of the Company’s Board of Directors. The Policy establishes compensation to be paid to nonemployee directors of the Company.

Applicable Persons

This Policy shall apply to each director of the Company who is not an employee of, or compensated consultant to, the Company or any Affiliate (each, an “Outside Director”). “Affiliate” shall mean an entity which is a direct or indirect parent or subsidiary of the Company, as determined pursuant to Section 424 of the Internal Revenue Code of 1986, as amended.

Compensation**A. Equity Grants**1. Annual Stock Option Grants

Each Outside Director shall be granted, automatically and without any action on the part of the Board of Directors, under the Company’s 2016 Equity Incentive Plan or a successor plan (the “Equity Plan”), a nonqualified stock option to purchase 3,000 shares of the Company’s common stock, par value \$0.01 per share (“Common Stock”), each year on the fifth (5th) business day after the Company’s annual meeting of stockholders (the “Annual Stock Options”); provided, however, that if there has been no annual meeting of stockholders held by the first business day of the third fiscal quarter, each Outside Director shall be granted, automatically and without any action on the part of the Board of Directors, such Annual Stock Option on the first business day of the third fiscal quarter of such year.

2. Initial Stock Option Grants for Newly Appointed or Elected Directors

Each new Outside Director shall be granted, automatically and without any action on the part of the Board of Directors, under the Equity Plan, a nonqualified stock option to purchase 4,500 shares of Common Stock on the date that the Outside Director is first appointed or elected to the Board of Directors (the “Initial Stock Options” and, together with the Annual Stock Options, the “Outside Director Stock Options”).

3. Terms of Outside Director Stock Options

Unless otherwise specified by the Board of Directors or the Compensation Committee at the time of grant, each Outside Director Stock Option shall: (i) vest, in the case of (A) an Annual Stock Option, on the earlier of (a) one year from the date of the grant or (b) the day prior to the annual meeting for the next fiscal year that begins following the date of grant, subject to the Outside Director’s continued service on the Board of Directors on the vesting date, and (B) an Initial Stock Option, in equal annual installments over three years from the date of grant; provided that each Initial Stock Option shall in any case be fully vested on the day prior to the annual meeting for the third fiscal year that begins following the date of

grant, subject to the Outside Director's continued service on the Board of Directors on the applicable vesting dates; (ii) terminate 10 years from the date of grant, (iii) become fully vested immediately prior to a Change of Control (as defined in the Equity Plan, as amended from time to time), and (iv) be granted under the Company's standard form of agreement unless on or prior to the date of grant the Board of Directors or the Compensation Committee shall determine that other terms or conditions shall be applicable.

B. Cash Fees

1. Annual Cash Fees

The following annual cash fees shall be paid to the Outside Directors serving on the Board of Directors and the Audit Committee, Compensation Committee and Nominating and Governance Committee, as applicable.

Board of Directors or Committee of Board of Directors	Annual Retainer Amount for Chair	Annual Retainer Amount for Other Members
Board of Directors	\$ 60,000	\$ 35,000
Audit Committee	\$ 15,000	\$ 7,500
Compensation Committee	\$ 15,000	\$ 7,500
Nominating and Governance Committee	\$ 7,500	\$ 3,750

2. Payment Terms for All Cash Fees

Cash fees payable to Outside Directors shall be paid quarterly in arrears as soon as practicable following the last business day of each fiscal quarter.

Following an Outside Director's first election or appointment to the Board of Directors, such Outside Director shall receive his or her cash compensation prorated during the first fiscal quarter in which he or she was initially appointed or elected for the number of days during which he or she provides service. If an Outside Director dies, resigns or is removed during any quarter, he or she shall be entitled to a cash payment on a prorated basis through his or her last day of service that shall be paid as soon as practicable following the last business day of the fiscal quarter.

Expenses

Upon presentation of documentation of such expenses reasonably satisfactory to the Company, each Outside Director shall be reimbursed for his or her reasonable out-of-pocket business expenses incurred in connection with attending meetings of the Board of Directors and Committees thereof or in connection with other business related to the Board of Directors. Each Outside Director shall abide by the Company's travel and other expense policies applicable to Company personnel.

Amendments

The Compensation Committee or the Board of Directors shall review this Policy from time to time to assess whether any amendments in the type and amount of compensation provided herein should be adjusted in order to fulfill the objectives of this Policy.

CERTIFICATIONS UNDER SECTION 302

I, Ronald H.W. Cooper, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Albireo Pharma, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 11, 2017

/s/ Ronald H.W. Cooper

Ronald H.W. Cooper

President and Chief Executive Officer

(principal executive officer)

CERTIFICATIONS UNDER SECTION 302

I, Thomas A. Shea, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Albireo Pharma, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 11, 2017

/s/ Thomas A. Shea

Thomas A. Shea

Chief Financial Officer and Treasurer (principal financial officer and principal accounting officer)

CERTIFICATIONS UNDER SECTION 906

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), each of the undersigned officers of Albireo Pharma, Inc., a Delaware corporation (the "Company"), does hereby certify, to such officer's knowledge, that:

The Quarterly Report for the quarter ended March 31, 2017 (the "Form 10-Q") of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, and the information contained in the Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 11, 2017

/s/ Ronald H.W. Cooper

Ronald H.W. Cooper
President and Chief Executive Officer
(principal executive officer)

Dated: May 11, 2017

/s/ Thomas A. Shea

Thomas A. Shea
Chief Financial Officer and Treasurer
(principal financial officer and principal accounting officer)