
**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 June 30, 2018

OR

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

For the transition period from ____ to ____.

Commission File Number 001-33451

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 checked="" type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input 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 August 1, 2018, the registrant had 11,969,928 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. 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 to our future operations or 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, number, 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 or approval, 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 Phase 3 clinical trial of A4250 in patients with progressive familial intrahepatic cholestasis, or PFIC), for submission or approval of any regulatory filing, or for meeting with regulatory authorities;
- 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 HealthCare Royalty Partners III, L.P., or HCR, or EA Pharma Co., Ltd., or EA Pharma, may make to us or any other action or decision that EA Pharma may make concerning elobixibat or our business relationship;
- our future operations, financial position, revenues, costs, expenses, uses of cash, capital requirements, our need for additional financing or the period for which our existing cash resources will be sufficient to meet our operating requirements; or
- our strategies, prospects, plans, expectations, forecasts 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 estimates or 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, experience or achievements to differ materially from those expressed or implied by any forward-looking statement. Actual results, level of activity, performance, experience or achievements may differ materially from those expressed or implied by any forward-looking statement as a result of various important factors, including our critical accounting policies and risks and uncertainties relating, among other things, to:

- the design, size, duration and endpoints for, and results from, our double blind Phase 3 clinical trial of A4250 in patients with PFIC or related extension study, or any other trials that will be required to obtain marketing approval for A4250 to treat patients with PFIC or any other pediatric cholestatic liver disease, for elobixibat to treat nonalcoholic steatohepatitis, or NASH, or for A3384 to treat bile acid malabsorption, or BAM;
- whether favorable findings from clinical trials of A4250 to date, including findings in indications other than PFIC, will be predictive of results from future clinical trials, including the trials comprising our Phase 3 PFIC program for A4250;
- whether either or both of the U.S. Food and Drug Administration, or FDA, and European Medicines Agency, or EMA, will determine that the primary endpoint and treatment duration of the Phase 3 trial in patients with PFIC are sufficient, even if such primary endpoint is met with statistical significance, to support approval of A4250 in the United States or the European Union, to treat PFIC, a symptom of PFIC, a specific PFIC subtype(s) or otherwise;
- the outcome and interpretation by regulatory authorities of an ongoing third-party study pooling and analyzing long-term PFIC patient data;
- the timing for completion of, or for availability of data from, the trials comprising the Phase 3 PFIC program for A4250, and the outcomes of such trials;
- delays or other challenges in the recruitment of patients for the Phase 3 trial of A4250;

- whether we will receive a rare pediatric disease priority review voucher for A4250 from the FDA when applicable, whether a rare pediatric disease priority review voucher that we may receive in the future for A4250, if any, will be valuable to us, and, if necessary, whether the rare pediatric disease priority review voucher program will be renewed beyond 2020;
- the competitive environment and commercial opportunity for a potential treatment for PFIC and other orphan pediatric cholestatic liver diseases;
- 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 medical benefit that may be derived from A4250, elobixibat, A3384 or any of our other product candidates;
- the extent to which our agreements with HCR and EA Pharma for elobixibat generate nondilutive income for us;
- the timing and success of submission, acceptance and approval of regulatory filings and any related restrictions, limitations or warnings in the label of any approved product candidates;
- the significant control or influence that EA Pharma has over the commercialization of elobixibat in Japan and the development and commercialization of elobixibat in EA Pharma's other licensed territories;
- whether we elect to seek and, if so, our ability to establish 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 product candidate of ours in the treatment of NASH;
- the accuracy of our estimates regarding expenses, costs, 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;
- regulatory developments in the United States and other countries;
- our ability to fully remediate our identified internal control material weaknesses by our planned timeframe;
- the performance of our third-party suppliers, manufacturers and contract research organizations and our ability to obtain alternative sources of raw materials;
- our ability to attract and retain key personnel; and
- our ability to comply with regulatory requirements relating to our business, and the costs of compliance with those requirements, including those on data privacy and security.

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, 2017, in item 1A of Part II of this quarterly report, 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 filing 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>June 30, 2018</u>	<u>December 31, 2017</u>
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 183,228	\$ 53,231
Prepaid expenses and other assets	610	1,054
Other receivables	2,406	726
Total current assets	186,244	55,011
Property and equipment, net	210	178
Goodwill	17,260	17,260
Other noncurrent assets	422	775
Total assets	<u>\$ 204,136</u>	<u>\$ 73,224</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Trade payables	\$ 3,020	\$ 1,350
Accrued expenses	4,353	6,105
Other liabilities	541	474
Total current liabilities	7,914	7,929
Liability related to sale of future royalties	46,736	—
Long-term liabilities	39	42
Total liabilities	54,689	7,971
Stockholders' Equity:		
Common stock, \$0.01 par value per share — 30,000,000 authorized at June 30, 2018 and December 31, 2017; 11,957,491 and 8,902,784 issued and outstanding at June 30, 2018 and December 31, 2017, respectively	120	89
Additional paid in capital	211,140	114,522
Accumulated other comprehensive income	4,768	1,001
Accumulated deficit	(66,581)	(50,359)
Total stockholders' equity	149,447	65,253
Total liabilities and stockholders' equity	<u>\$ 204,136</u>	<u>\$ 73,224</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 June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Revenue	\$ 730	\$ 1	\$ 11,932	\$ 2
Operating expenses:				
Research and development	6,411	2,962	12,562	5,774
General and administrative	4,238	3,713	8,366	6,925
Other operating (income) expense, net	487	(65)	1,991	9
Total operating expenses	11,136	6,610	22,919	12,708
Operating loss	(10,406)	(6,609)	(10,987)	(12,706)
Interest income (expense), net	(1,666)	(152)	(2,682)	(401)
Other income (expense), net	(2,531)	585	(2,553)	260
Net loss before income taxes	(14,603)	(6,176)	(16,222)	(12,847)
Income tax	—	—	—	—
Net loss	\$ (14,603)	\$ (6,176)	\$ (16,222)	\$ (12,847)
Net loss per share - basic and diluted	\$ (1.22)	\$ (0.86)	\$ (1.42)	\$ (1.91)
Weighted average shares outstanding - basic and diluted	11,938,357	7,171,610	11,417,463	6,734,555

See accompanying notes to Condensed Consolidated Financial Statements.

Albireo Pharma, Inc.

Condensed Consolidated Statements of Comprehensive Loss

(in thousands)

(unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Net loss	\$ (14,603)	\$ (6,176)	\$ (16,222)	\$ (12,847)
Other comprehensive loss:				
Foreign currency translation adjustment	2,573	389	3,767	(90)
Total other comprehensive income (loss)	2,573	389	3,767	(90)
Total comprehensive loss	<u>\$ (12,030)</u>	<u>\$ (5,787)</u>	<u>\$ (12,455)</u>	<u>\$ (12,937)</u>

See accompanying notes to Condensed Consolidated Financial Statements.

Albireo Pharma, Inc.

Condensed Consolidated Statements of Cash Flows

(in thousands)

(unaudited)

	Six Months Ended June 30,	
	2018	2017
Cash flows from operating activities:		
Net loss	\$ (16,222)	\$ (12,847)
Adjustments to reconcile net loss to net cash used in operating activities:		
Non cash interest expense on liability related to royalty monetization	2,028	—
Accretion of debt discount and amortization of issuance costs	—	301
Depreciation and amortization	22	13
Change in fair value of financial instruments	—	(251)
Stock-based compensation expense	2,244	2,051
Unrealized foreign exchange (gain) loss	6,718	—
Changes in operating assets and liabilities:		
Trade receivables	(754)	27
Prepaid expenses and other current assets	432	94
Other receivables	(1,055)	(292)
Other non current assets	354	(12)
Trade payables	1,867	280
Accrued expenses	(2,223)	(3,864)
Other liabilities and long-term liabilities	70	29
Other non current liabilities	—	43
Net cash used in operating activities	<u>(6,519)</u>	<u>(14,428)</u>
Cash flows from investing activities:		
Purchase of property, plant and equipment	(61)	(146)
Net cash used in investing activities	<u>(61)</u>	<u>(146)</u>
Cash flows from financing activities:		
Proceeds from issuance of common stock, net of issuance costs	94,149	48,508
Proceeds from royalty agreement	44,525	—
Exercise of options	255	62
Payments of principal on borrowings	—	(1,648)
Net cash provided by financing activities	<u>138,929</u>	<u>46,922</u>
Effect of exchange rate changes on cash and cash equivalents	(2,352)	319
Net increase in cash and cash equivalents	129,997	32,667
Cash and cash equivalents—beginning of period	53,231	29,931
Cash and cash equivalents—end of period	<u>\$ 183,228</u>	<u>\$ 62,598</u>
Supplemental disclosures of cash flow information:		
Cash paid for interest	\$ —	\$ 136
Shares issued upon cashless exercise of Kreos warrants	—	617

See accompanying notes to Condensed Consolidated Financial Statements.

Albireo Pharma, Inc.

Notes to Condensed Consolidated Financial Statements

(unaudited)

1. Summary of significant accounting policies and basis of presentation

Organization

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 a Phase 3 product candidate, a Phase 2 product candidate, and elobixibat, which is approved in Japan for the treatment of chronic constipation. We also anticipate commencing a development program with elobixibat in nonalcoholic steatohepatitis or NASH. A4250, the Company's Phase 3 lead product candidate, is in development initially for the treatment of patients with progressive familial intrahepatic cholestasis (PFIC), a rare, life-threatening genetic disorder affecting young children.

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, and 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 our Annual Report on Form 10-K for the fiscal year ended December 31, 2017. 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 and six months ended June 30, 2018 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. The condensed consolidated financial statements are prepared on a basis consistent with prior periods except for the adoption of the new revenue recognition standard discussed below.

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).

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., Albireo Security Corp. and 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, Albireo, Inc. and Albireo Security Corp. is the U.S. Dollar (USD), the functional currency for Albireo Limited, Elobix AB and Bidel UK Limited 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 as part of operating expenses.

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

- a. assets and liabilities presented are translated at the closing exchange rate as of June 30, 2018 and December 31, 2017;
- b. income and expenses for each statement of comprehensive income (loss) are translated at the average exchange rate for the applicable period;
- c. significant transactions use the closing exchange rate on the date of the transaction; and
- d. all resulting exchange differences arising from such translations are recognized directly in other comprehensive income (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 royalty monetization liability estimated at fair value. Actual results could materially differ from these estimates.

Fair value of financial instruments

When measuring the fair value of financial instruments, 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.

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 nonclinical 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 nonclinical 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

In 2012, the Company entered into a license agreement (the Agreement) with EA Pharma Co., Ltd. (EA Pharma, formerly Ajinomoto Pharmaceuticals Co., Ltd.) to develop a select product candidate (elobixibat) for registration and subsequent commercialization in select markets. In conjunction with the Agreement, the Company granted EA Pharma an exclusive license to its intellectual property for development and commercialization activities in the designated field and territories. The Company is entitled to payments resulting from pharmaceutical ingredient or related procurement services if provided as part of a development plan. Revenue related to these payments is recorded on a net basis; in this instance, 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.

In 2012, EA Pharma made an upfront cash payment to the Company of €10.0 million under the Agreement. The parties amended the agreement in April 2016, pursuant to which EA Pharma made an additional cash payment to the Company of \$8.0 million. As of June 30, 2018, the Company is eligible to receive an additional regulatory-based milestone payment under the Agreement of €4.3 million (\$5.0 million based on the Euro to USD exchange rate as of June 30, 2018) if a specified regulatory event is achieved for elobixibat. In December 2017, the Company executed a royalty interest acquisition agreement (RIAA) with HealthCare Royalty Partners III, L.P. (HCR) relating to certain royalties and sales milestone payments due under the Agreement and which is detailed below. The cash payments and any other payments for milestones and royalties from EA Pharma are non-refundable, non-creditable and not subject to set-off.

The Agreement will continue until the last royalty period for any product in the territory, which is defined as the period when there are no remaining patent rights or regulatory exclusivity in place for any products subject to royalties. EA Pharma may terminate the Agreement at will upon 180 days' prior written notice to the Company. Either party may terminate the Agreement for the other party's uncured material breach or insolvency and in certain other circumstances agreed to by the parties.

The Company assessed this arrangement in accordance with Accounting Standards Codification (ASC) Topic 606, *Revenue from Contracts with Customers* (ASC 606), and concluded that the contract counterparty, EA Pharma, is a customer. The Company identified the following material promises under the arrangement: (1) a sub-licensable and exclusive license to use the Company's intellectual property and collaboration compounds to conduct development and commercialization activities in the designated fields and territories and (2) the technology transfer of the Albireo intellectual property and compound. Participation on the joint development committee ("JDC") and joint commercialization committee ("JCC") was determined to be quantitatively and qualitatively immaterial and therefore is excluded from performance obligations. The license was determined to not be distinct from the technology transfer; as such, the Company determined that these promises should be combined into a single performance obligation.

Under the Agreement, in order to evaluate the appropriate transaction price, the Company determined that the upfront amount constituted the entirety of the consideration to be included in the transaction price as of the outset of the arrangement, which was allocated to the single performance obligation. At the outset of the arrangement, the transaction price included only the €10.0 million upfront consideration received, and was increased to include the \$8.0 million received in conjunction with the 2016 amendment. The potential milestone payments were excluded from the transaction price, as all milestone amounts were fully constrained. In April 2013, December 2015, and October 2016, various development milestone events were achieved, and the Company recognized revenue related to these events; because the Company previously satisfied its performance obligation to deliver the license, the Company recorded these milestone payments as received. The Company will reevaluate the transaction price at the end of each reporting period and as other uncertain events are resolved or other changes in circumstances occur, and, if necessary, adjust its estimate of the transaction price.

In January 2018, the Japanese Ministry of Health Labour and Welfare (MHLW) approved a new drug application filed by EA Pharma for elobixibat for the treatment of chronic constipation, for which the Company received a milestone payment of \$11.2 million. Based on the regulatory approval, the Company determined that the milestone was no longer at risk of significant reversal. As such, because the single performance obligation had previously been satisfied, the Company recognized this amount in full in the first quarter of 2018 and there was no deferred revenue or contract asset as of June 30, 2018.

Monetization of Future Royalties

In December 2017, the Company executed the RIAA with HCR pursuant to which it sold to HCR the right to receive all royalties from sales in Japan and sales milestones achieved from any covered territory potentially payable to the Company under the Agreement, up to a specified maximum “cap” amount of \$78.8 million, based on the funds the Company received from HCR to date. The Company received \$44.5 million from HCR, net of certain transaction expenses, under the RIAA and the Company is eligible to receive an additional \$15.0 million under the RIAA if a specified sales milestone is achieved for elobixibat in Japan. If the cap amount is reached, the Company will again become eligible to receive royalties from Japanese sales and sales milestones from covered territories for elobixibat from EA Pharma under the Agreement. The Company is obligated to make royalty interest payments to HCR under the RIAA only to the extent it receives future Japanese royalties, sales milestones or other specified payments from EA Pharma. Although the Company sold its rights to receive royalties from the sales of elobixibat in Japan, as a result of its ongoing involvement in the cash flows related to these royalties, the Company will continue to account for these royalties as revenue. The Company recorded the \$44.5 million as a liability related to sale of future royalties (royalty obligation) in the balance sheet at June 30, 2018. The royalty obligation will be amortized using the effective interest rate method, based on the Company's best estimate of the time it will take to reach the capped amount. The following table shows the activity within the liability account during the period from the inception of the royalty transaction in December 2017 to June 30, 2018:

	June 30, 2018
	(in thousands)
Liability related to sale of future royalties—beginning balance	\$ —
Proceeds from sale of future royalties, net	44,525
Unrealized foreign currency (gain)/loss on remeasurement of the liability	2,440
Foreign currency translation (gain)/loss	(2,418)
Accretion of interest expense on liability related to royalty monetization	2,919
Liability related to sale of future royalties—ending balance	\$ 47,466
Less current portion classified within other current liabilities	(730)
Net ending Liability related to sale of future royalties	\$ 46,736

The Company records estimated royalties to accrued other until the payment is received from EA Pharma at which time the Company then remits payment to HCR. As royalties are remitted to HCR, the balance of the royalty obligation will be effectively repaid over the life of the RIAA. In order to determine the amortization of the royalty obligation, the Company is required to estimate the total amount of future royalty payments to be received and submitted to HCR, as noted above, based on the Company's best estimate of the time it will take to reach the cap amount. The sum of these amounts less the \$44.5 million proceeds the Company received will be recorded as interest expense over the life of the royalty obligation. Since inception, the Company's estimate of its total interest expense resulted in a quarterly effective interest rate of approximately 4.15%. The Company periodically assesses the estimated royalty payments to HCR and to the extent such payments are greater or less than its initial estimates or the timing of such payments is materially different than its original estimates, the Company will prospectively adjust the accretion of interest on the royalty obligation. There are a number of factors that could materially affect the amount and the timing of royalty payments, most of which are not within the Company's control. Such factors include, but are not limited to, the rate of elobixibat prescriptions, the number of doses administered, the introduction of competing products, manufacturing or other delays, patent protection, adverse events that result in governmental health authority imposed restrictions on the use of the drug products, significant changes in foreign exchange rates as the royalties remitted to HCR are in U.S. dollars while sales of elobixibat are in Japanese yen, and sales never achieving forecasted numbers, which would result in reduced royalty payments, reduced non-cash royalty revenues and reduced non-cash interest expense over the life of the royalty obligation.

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

Effective January 1, 2018, the Company adopted ASC Topic 606, *Revenue from Contracts with Customers*, using the modified retrospective transition method. Under this method, results for reporting periods beginning after January 1, 2018 are presented under ASC 606, while prior period amounts are not adjusted and continue to be reported in accordance with ASC 605. This standard applies to all contracts with customers, except for contracts that are within the scope of other standards, such as leases, insurance, collaboration arrangements and financial instruments. Under ASC 606, an entity recognizes revenue when its customer obtains control of promised goods or services, in an amount that reflects the consideration which the entity expects to receive in exchange for those

goods or services. To determine revenue recognition for arrangements that an entity determines are within the scope of ASC 606, the entity performs the following five step analysis: (i) identify the contract(s) with a customer; (ii) identify the performance obligations in the contract; (iii) determine the transaction price; (iv) allocate the transaction price to the performance obligations in the contract; and (v) recognize revenue when (or as) the entity satisfies a performance obligation. The Company only applies the five-step analysis to contracts when it is probable that the entity will collect the consideration it is entitled to in exchange for the goods or services it transfers to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract, determines those that are performance obligations, and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied.

The Company enters into licensing agreements which are within the scope of ASC 606, under which it may exclusively license rights to research, develop, manufacture and commercialize its product candidates to third parties. The terms of these arrangements may include payment to the Company of one or more of the following: non-refundable, upfront license fees; reimbursement of certain costs; development, regulatory and commercial milestone payments; and royalties on net sales of licensed products.

In determining the appropriate amount of revenue to be recognized as the Company fulfills its obligations under each of its agreements, the Company performs the following steps: (i) identification of the promised goods or services in the contract; (ii) determination of whether the promised goods or services are performance obligations, including whether they are distinct in the context of the contract; (iii) measurement of the transaction price, including the constraint on variable consideration; (iv) allocation of the transaction price to the performance obligations; and (v) recognition of revenue when (or as) the Company satisfies each performance obligation. As part of the accounting for these arrangements, the Company must use significant judgment to determine: (a) the number of performance obligations based on the determination under step (ii) above and (b) the transaction price under step (iii) above. The Company uses judgment to determine whether milestones or other variable consideration, except for royalties, should be included in the transaction price as described further below. The transaction price is allocated to each performance obligation on a relative stand-alone selling price basis, for which the Company recognizes revenue as or when the performance obligations under the contract are satisfied.

Amounts received prior to revenue recognition are recorded as deferred revenue. Amounts expected to be recognized as revenue within the 12 months following the balance sheet date are classified as current portion of deferred revenue in the accompanying consolidated balance sheets. Amounts not expected to be recognized as revenue within the 12 months following the balance sheet date are classified as deferred revenue, net of current portion.

Exclusive Licenses

If the license to the Company's intellectual property is determined to be distinct from the other promises or performance obligations identified in the arrangement, the Company recognizes revenue from non-refundable, upfront fees allocated to the license when the license is transferred to the customer and the customer is able to use and benefit from the license. In assessing whether a promise or performance obligation is distinct from the other promises, the Company considers factors such as the research, development, manufacturing and commercialization capabilities of the collaboration partner and the availability of the associated expertise in the general marketplace. In addition, the Company considers whether the collaboration partner can benefit from a promise for its intended purpose without the receipt of the remaining promise, whether the value of the promise is dependent on the unsatisfied promise, whether there are other vendors that could provide the remaining promise, and whether it is separately identifiable from the remaining promise. For licenses that are combined with other promises, the Company utilizes judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time and, if over time, the appropriate method of measuring progress for purposes of recognizing revenue. The Company evaluates the measure of progress each reporting period and, if necessary, adjusts the measure of performance and related revenue recognition. The measure of progress, and thereby periods over which revenue should be recognized, are subject to estimates by management and may change over the course of the research and development and licensing agreement. Such a change could have a material impact on the amount of revenue the Company records in future periods.

Milestone Payments

At the inception of each arrangement that includes development milestone payments, the Company evaluates whether the milestones are considered probable of being achieved and estimates the amount to be included in the transaction price using the most likely amount method. If it is probable that a significant revenue reversal would not occur, the associated milestone value is included in the transaction price. Milestone payments that are not within the control of the Company or the licensee, such as regulatory approvals, are not considered probable of being achieved until those approvals are received. The Company evaluates factors such as the scientific, clinical, regulatory, commercial, and other risks that must be overcome to achieve the particular milestone in making this assessment. There is considerable judgment involved in determining whether it is probable that a significant revenue reversal would not occur. At the end of each subsequent reporting period, the Company reevaluates the probability of achievement of all

milestones subject to constraint and, if necessary, adjusts its estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect revenues and earnings in the period of adjustment.

Royalties

For arrangements that include sales-based royalties, including milestone payments based on a level of sales, and the license is deemed to be the predominant item to which the royalties relate, the Company recognizes revenue at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalty has been allocated has been satisfied (or partially satisfied).

Impact of Adoption

The most significant change relates to the Company's accounting for contingent milestone payments. Under ASC 605, the Company recognized revenue related to contingent milestone payments as the milestone was achieved, using the milestone method. Under ASC 606, the Company performs an assessment of the probability of milestone achievement at each reporting date, and determines whether the cumulative revenue related to the milestone is at risk of significant reversal.

As a result of adopting ASC 606 on January 1, 2018, the Company did not record any cumulative changes in the current period, as the performance obligation related to the Agreement with EA Pharma was fully satisfied in 2012. Additionally, there was no difference in the revenue recognized or costs recorded in the six months ended June 30, 2018 as what would have been recognized or recorded under ASC 605.

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. The Company has adopted this standard as of January 1, 2018 and determined there is no impact of this standard on the Company's condensed consolidated financial statements as of the date of the adoption.

In May 2017, the FASB issued ASU 2017-09, "*Compensation – Stock Compensation (Topic 718), Scope of Modification Accounting*," (ASC 718), which amends the scope of modification accounting for share-based payment arrangements and provides guidance on the types of changes to the terms or conditions of share-based payment awards to which an entity would be required to apply modification accounting under ASC 718. The new standard is effective for fiscal years beginning after December 15, 2017 and for interim periods therein. The Company has adopted this standard as of January 1, 2018 and determined there is minimal impact on the Company's condensed consolidated financial statements.

Accounting pronouncements issued but not yet adopted

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.

2. Commitments and contingencies

Operating lease commitments

As of June 30, 2018, future minimum commitments under facility operating leases were \$1,088,000.

Rent expense recognized under the Company's operating leases was \$204,000 and \$185,000 for the six months ended June 30, 2018 and 2017, respectively.

Agreements with CROs

As of June 30, 2018, the Company had various agreements with CROs for the conduct of specified research and development activities. Based on the terms of the respective agreements, the Company may be required to make future payments of up to \$17.6 million to CROs 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, in April 2018, the Company was required to pay a one-time “launch fee” of \$457,000.

3. 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 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 June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Basic and Diluted EPS:				
Numerator				
Net loss	\$ (14,603)	\$ (6,176)	\$ (16,222)	\$ (12,847)
Denominator				
Weighted average number of shares	11,938,357	7,171,610	11,417,463	6,734,555
Basic and Diluted EPS	\$ (1.22)	\$ (0.86)	\$ (1.42)	\$ (1.91)

The following outstanding common stock equivalents were excluded from the computation of Diluted EPS for the three and six months ended June 30, 2018 and 2017 because including them would have been anti-dilutive:

	For the Three Months Ended		For the Six Months Ended June 30,	
	June 30,	2017	2018	2017
	2018			
Options to purchase common stock	1,393,297	767,662	1,393,297	767,662

4. Income taxes

The Company did not record a tax provision or benefit for the three months or six months ended June 30, 2018 or 2017. 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.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin No. 118 (SAB 118), which provides guidance on accounting for the tax effects of the Tax Cuts and Jobs Act (TCJA). SAB 118 provides a measurement period that should not extend beyond one year from the TCJA enactment date for companies to complete the accounting under ASC Topic 740, *Income Taxes*. Although no changes were made to provisional amounts during the three or six months ended June 30, 2018, the Company will continue to refine its estimates related to the new legislation as clarifying guidance and interpretations are issued and the Company’s 2017 tax returns are completed.

5. Stock-based Compensation

The Company recognized stock-based compensation expense for employees of \$1.1 million and \$1.4 million for the three months ended June 30, 2018 and 2017, respectively, and \$2.2 million and \$2.1 million for the six months ended June 30, 2018 and 2017, respectively.

A summary of the outstanding stock options as of June 30, 2018 is as follows:

	Stock Options Outstanding			
	Number of Shares	Weighted Average Exercise Price Per Share	Weighted Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value (in thousands)
Outstanding—December 31, 2017	1,035,361	\$ 17.78	8.71	\$ 11,896
Granted	486,050	\$ 31.12	—	\$ —
Expirations/forfeitures	(42,491)	\$ 41.93	—	\$ —
Exercises	(60,345)	\$ 4.23	—	\$ —
Outstanding—June 30, 2018	<u>1,418,575</u>	\$ 21.94	8.47	\$ 20,587
Exercisable—June 30, 2018	<u>444,425</u>	\$ 15.72	7.03	\$ 10,142
Vested or expected to vest at—June 30, 2018	<u>1,399,153</u>	\$ 22.23	8.48	\$ 19,917

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 June 30, 2018.

As of June 30, 2018, the total unrecognized compensation expense related to unvested options was \$17.1 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 and six months ended June 30, 2018 was estimated with the following assumptions:

	Three Months Ended June 30, 2018	Six Months Ended June 30, 2018
Price per share of common stock	\$30.68-\$32.53	30.68-32.57
Expected term (in years)	5.5-6.0	5.3-6.0
Risk-free interest rate	2.8	2.6-2.8
Expected volatility	84.7-86.9	84.7-86.9
Dividend rate	0%	0%

6. Financings

At-the-Market Sales

In October 2017, the Company entered into an at-the-market offering program Sales Agreement with Cowen and Company, LLC (Cowen) relating to the sale of shares of the Company's common stock having an aggregate offering price of up to \$50.0 million from time to time through Cowen, acting as its agent. In February 2018, the Company sold an aggregate of 728,862 shares of common stock pursuant to the Sales Agreement and received proceeds, net of offering expenses, of approximately \$24.2 million.

January 2018 Underwritten Public Offering

On January 29, 2018, the Company completed an underwritten public offering of 2,265,500 shares of its common stock, at a price to public of \$33.00 per share. The Company received net proceeds from this offering of \$70.0 million, after deducting underwriting discounts, commission and offering expenses.

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, 2017, 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, 2017 in item 1A of Part II of this quarterly report or in other filings that we make with the SEC.

Overview

We are a biopharmaceutical company focused on the development and commercialization of novel bile acid modulators to treat orphan pediatric liver diseases and other liver or gastrointestinal diseases and disorders. 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 completed a Phase 2 clinical trial of A4250 in children with chronic cholestasis and pruritus and enrolled the first patient in our Phase 3 clinical trial of A4250 in patients with PFIC in May of 2018. In June of 2018, the FDA granted a rare pediatric disease designation to A4250, which affirms our eligibility to apply for a rare pediatric disease priority review voucher upon submission of a new drug application for A4250. In addition to PFIC, we plan to consider conducting future clinical development of A4250 as a treatment for one or more other pediatric cholestatic liver diseases and disorders. Our most advanced product candidates in addition to A4250 include elobixibat, which is approved in Japan for the treatment of chronic constipation and which for we anticipate conducting a Phase 2 clinical trial of as a treatment for nonalcoholic steatohepatitis, or NASH, and A3384, which is a product candidate to treat bile acid malabsorption. In June 2018, the Company was granted a patent for a method of using elobixibat to treat NASH in both the US and Europe. We also have a preclinical program in NASH.

The precise prevalence of PFIC is unknown, and we are not aware of any patient registries or other method of establishing with precision the actual number of patients with PFIC in any geography. PFIC has been estimated to affect between one in every 50,000 to 100,000 children born worldwide. Benign recurrent familial intrahepatic cholestasis, or BRIC, is a disease that is caused by the same genetic defect, and patients who manifest the same symptoms as PFIC but their symptomatology tends to be episodic in nature. BRIC has also been estimated to affect between one in every 50,000 to 100,000 children born worldwide. Based on the published incidence, published regional populations, and estimated median life expectancies, we estimate the prevalence of PFIC together with BRIC to be approximately 8,000 to 10,000 patients in the U.S. and E.U. but we are not able to estimate the prevalence of PFIC with precision. There are currently no drugs approved for the treatment of PFIC. First-line treatment for PFIC is typically off-label ursodeoxycholic acid, or UDCA, which is approved in the U.S. and elsewhere for the treatment of primary biliary cholangitis, or PBC. However, many PFIC patients do not respond well to UDCA, undergo partial external bile diversion, or PEBD, surgery and often require liver transplantation. PEBD surgery is a life-altering and undesirable procedure in which bile is drained outside the body to a stoma bag that must be worn by the patient 24 hours a day.

We intend to consider conducting future clinical development of A4250 as a treatment for other pediatric cholestatic liver diseases and disorders in addition to PFIC. These indications may include any or all of Alagille syndrome or ALGS, biliary atresia and primary sclerosing cholangitis.

ALGS is a genetic condition associated with liver, heart, eye and skeletal abnormalities. In particular, ALGS patients have fewer than normal bile ducts inside the liver, which leads to cholestasis and the accumulation of bile and causes scarring in the liver. We estimate the incidence of ALGS to be one in 55,000 newborns and the prevalence to be approximately 2,100 patients in the U.S. and 1,600 patients in the E.U. There are currently no drugs approved for the treatment of ALGS. Current treatment for ALGS is generally in line with current treatments for PFIC as described above.

Biliary atresia is a partial or total blocking or absence of large bile ducts that causes cholestasis and resulting accumulation of bile that damages the liver. The estimated worldwide incidence of biliary atresia is 7.3 in every 100,000 births in the U.S. and one in every 18,000 births in the E.U. and the prevalence is estimated to be approximately 9,600 patients in the U.S. and 6,600 patients in the E.U.. There are currently no drugs approved for the treatment of biliary atresia. The current standard of care is a surgery known as the Kasai procedure, or hepatoportoenterostomy, in which the obstructed bile ducts are removed and a section of the small intestine is connected to the liver directly. However, only an estimated 25% of those initially undergoing the Kasai procedure will survive to their twenties without need for liver transplantation.

Primary sclerosing cholangitis refers to swelling (inflammation), scarring, and destruction of bile ducts inside and outside of the liver. The first symptoms are typically fatigue, itching and jaundice, and many patients with sclerosing cholangitis also suffer from inflammatory bowel disease. The estimated incidence of sclerosing cholangitis is 6.3 cases per 100,000 people. There are currently no drugs approved for the treatment of sclerosing cholangitis. First-line treatment is typically off-label UDCA, although UDCA has not been established to be safe and effective in patients with sclerosing cholangitis in well controlled clinical trials.

In June 2018, our shareholders elected Anne Klibanski, M.D., and Stephanie Okey, M.S., to our Board of Directors, and we added Jason G. Duncan, J.D., as General Counsel and Secretary.

In July 2018, we added Patrick Horn, M.D. who succeeded Paresh Soni, M.D. as our Chief Medical Officer. Dr. Soni has agreed to serve as an active consultant to us, and during such time as he remains a consultant will continue to be covered as a "Participant" under our 2018 Equity Incentive Plan.

Since inception, we have incurred significant operating losses. As of June 30, 2018, we had an accumulated deficit of \$66.6 million. We expect to continue to incur significant expenses and increasing operating losses 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. 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 June 30, 2018, we had approximately \$183.2 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 royalty revenue, 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 performance obligations on a reliable basis that reasonably reflects the selling prices that might be expected to be achieved in stand-alone transactions. For additional information about our revenue recognition, refer to Note 1 to our condensed consolidated financial statements included in this quarterly report.

Operating Expenses

Research and Development Expenses

Research and development expenses consist primarily of personnel costs (including salaries, benefits and stock-based compensation) for employees in research and development functions, costs associated with nonclinical 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 nonclinical studies and clinical studies are performed by CROs. We expect to continue to focus our research and development efforts on nonclinical 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 nonclinical 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, benefits and stock-based compensation) 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, 2017 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 and the adoption of ASC 606 (see Note 1 to our condensed consolidated financial statements included in this quarterly report), royalty monetization and related estimates (see Note 1 to our condensed consolidated financial statements included in this quarterly report), research and development expenses and stock-based compensation are the most critical to understanding and evaluating our reported financial results. We have identified these policies as critical because they are both 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, 2017.

Results of Operations

Three Months Ended June 30, 2018 and June 30, 2017

Revenue

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	<u>(in thousands)</u>		
Revenue	<u>\$ 730</u>	<u>\$ 1</u>	<u>\$ 729</u>

There was \$730,000 in revenue for the three months ended June 30, 2018 compared with \$1,000 for the three months ended June 30, 2017, an increase of \$729,000. The higher revenue is due to the estimated royalty revenue from EA Pharma for elobixibat for the 2018 period.

Research and development expenses

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	<u>(in thousands)</u>		
Research and development expenses	<u>\$ 6,411</u>	<u>\$ 2,962</u>	<u>\$ 3,449</u>

Research and development expenses were \$6.4 million for the three months ended June 30, 2018 compared with \$3.0 million for the three months ended June 30, 2017, an increase of \$3.4 million. The higher research and development expenses for the 2018 period were principally due to an increase of \$1.6 million in costs associated with development of A4250, including costs incurred for manufacturing and clinical development activities for our Phase 3 clinical trial in patients with PFIC, and an increase of \$865,000 in personnel and related expenses as we continue to increase our headcount.

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 June 30, 2018 and 2017.

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Direct third-party project costs:			
A4250	\$ 3,461	\$ 1,872	\$ 1,589
Elobixibat	72	(7)	79
A3384	205	62	143
Preclinical	462	61	401
Total	<u>\$ 4,200</u>	<u>\$ 1,988</u>	<u>\$ 2,212</u>
Other project costs(1):			
Personnel costs	\$ 1,347	\$ 482	\$ 865
Other costs(2)	864	492	372
Total	<u>\$ 2,211</u>	<u>\$ 974</u>	<u>\$ 1,237</u>
Total research and development costs	<u>\$ 6,411</u>	<u>\$ 2,962</u>	<u>\$ 3,449</u>

(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

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
General and administrative expenses	<u>\$ 4,238</u>	<u>\$ 3,713</u>	<u>\$ 525</u>

General and administrative expenses were \$4.2 million for the three months ended June 30, 2018 compared with \$3.7 million for the three months ended June 30, 2017, an increase of \$525,000. The higher general and administrative expenses for the 2018 period were principally due to increases in recruiting costs and increases in professional fees.

Other operating (income) expense, net

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Other operating (income) expense, net	<u>\$ 487</u>	<u>\$ (65)</u>	<u>\$ 552</u>

Other operating (income) expense, net totaled \$487,000 of expense for the three months ended June 30, 2018 compared with \$65,000 of other operating income for the three months ended June 30, 2017, a difference of \$552,000. The difference resulted from differences in currency exchange rates in the two periods.

Interest income (expense), net

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Interest income (expense), net	<u>\$ (1,666)</u>	<u>\$ (152)</u>	<u>\$ (1,514)</u>

Interest income (expense), net totaled \$1.7 million of expense for the three months ended June 30, 2018 compared with \$152,000 of expense for the three months ended June 30, 2017, a difference of \$1.5 million. The difference was principally attributable to \$1.9 million in non-cash interest expense recorded in connection with the sale of future royalties, partially offset by interest income for the 2018 period, compared to interest expense related to our prior loan facility for the 2017 period.

Other income (expense), net

	<u>Three Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Other income (expense), net	<u>\$ (2,531)</u>	<u>\$ 585</u>	<u>\$ (3,116)</u>

Net other expense was \$2.5 million for the three months ended June 30, 2018 compared with net other income of \$585,000 for the three months ended June 30, 2017, a difference of \$3.1 million. The difference is primarily related to the foreign currency expense associated with our royalty monetization offset by the exercise of warrants by our lender in May 2017.

Six Months Ended June 30, 2018 and June 30, 2017

Revenue

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Revenue	<u>\$ 11,932</u>	<u>\$ 2</u>	<u>\$ 11,930</u>

Revenue was \$11.9 million for the six months ended June 30, 2018 compared with \$2,000 for the six months ended June 30, 2017, an increase of \$11.9 million. The higher revenue is due to a milestone payment received from EA Pharma due to the approval by the Japanese MHLW of the new drug application for elobixibat for the treatment of chronic constipation and the estimated royalty revenue from EA Pharma for elobixibat for the period.

Research and development expenses

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Research and development expenses	<u>\$ 12,562</u>	<u>\$ 5,774</u>	<u>\$ 6,788</u>

Research and development expenses were \$12.6 million for the six months ended June 30, 2018 compared with \$5.8 million for the six months ended June 30, 2017, an increase of \$6.8 million. The higher research and development expenses for the 2018 period were principally due to an increase of \$3.4 million in costs associated with development of A4250, including costs incurred for manufacturing and clinical development activities for our Phase 3 clinical trial in patients with PFIC, and an increase of \$1.8 million in personnel and related expenses as we continue to increase our headcount.

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 six months ended June 30, 2018 and 2017.

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Direct third-party project costs:			
A4250	\$ 6,851	\$ 3,485	\$ 3,366
Elobixibat	95	(4)	99
A3384	333	108	225
Preclinical	800	84	716
Total	<u>\$ 8,079</u>	<u>\$ 3,673</u>	<u>\$ 4,406</u>
Other project costs ⁽¹⁾ :			
Personnel costs	\$ 2,757	\$ 944	\$ 1,813
Other costs ⁽²⁾	1,726	1,157	569
Total	<u>\$ 4,483</u>	<u>\$ 2,101</u>	<u>\$ 2,382</u>
Total research and development costs	<u>\$ 12,562</u>	<u>\$ 5,774</u>	<u>\$ 6,788</u>

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

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

General and administrative expenses

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
General and administrative expenses	<u>\$ 8,366</u>	<u>\$ 6,925</u>	<u>\$ 1,441</u>

General and administrative expenses were \$8.4 million for the six months ended June 30, 2018 compared with \$6.9 million for the six months ended June 30, 2017, an increase of \$1.4 million. The higher general and administrative expenses for the 2018 period were principally attributable to increases of \$840,000 in professional fees, \$319,000 in recruiting costs, and \$195,000 in salary and benefits resulting from new hires.

Other operating (income) expense, net

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Other operating (income) expense, net	<u>\$ 1,991</u>	<u>\$ 9</u>	<u>\$ 1,982</u>

Other operating (income) expense, net totaled \$2.0 million of expense for the six months ended June 30, 2018 compared with \$9,000 of expense for the six months ended June 30, 2017, a difference of \$2.0 million. The difference resulted from changes in currency exchange rates between the two periods.

Interest expense, net

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
	(in thousands)		
Interest expense, net	<u>\$ (2,682)</u>	<u>\$ (401)</u>	<u>\$ 2,281</u>

Interest expense, net totaled \$2.7 million for the six months ended June 30, 2018 compared with \$401,000 for the six months ended June 30, 2017, an increase of \$2.3 million. The difference was principally attributable to \$2.9 million in non-cash interest expense recorded in connection with the sale of future royalties relating to sales of elobixibat in Japan, partially offset by interest income for the 2018 period, compared to interest expense related to our prior loan facility for the 2017 period.

Other income (expense), net

	<u>Six Months Ended June 30,</u>		<u>Change</u>
	<u>2018</u>	<u>2017</u>	<u>\$</u>
		(in thousands)	
Other income (expense), net	\$ (2,553)	\$ 260	\$ (2,813)

Other income (expense), net was \$2.6 million of expense for the six months ended June 30, 2018 compared with \$260,000 of income for the six months ended June 30, 2017, a change of \$2.8 million. The difference is primarily related to the foreign currency expense associated with our royalty monetization offset by the exercise of warrants by our lender in May 2017.

Liquidity and Capital Resources

Sources of Liquidity

We do not expect to generate significant revenue from product sales unless and until we or a potential future licensee or collaborator obtains marketing approval for, and commercializes, one or more of our current or potential future product candidates (other than elobixibat as a treatment for chronic constipation in Japan), which we do not expect to occur until at least 2021, if at all. 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 we will continue to 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 shares of common stock, 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.

As of June 30, 2018, our cash and cash equivalents were approximately \$183.2 million.

During the first quarter of 2018, following the Japanese MHLW's approval of elobixibat for the treatment of chronic constipation in January 2018, we received a \$44.5 million payment, net of certain transaction expenses, from HCR under our RIAA. Under the terms of the RIAA, we are eligible to receive an additional \$15 million if a specified sales milestone is achieved for elobixibat in Japan. Additionally, the MHLW approval triggered a milestone payment to us from EA Pharma of €9.0 million (\$11.2 million based on the Euro to U.S. Dollar, or USD, exchange rate at January 31, 2018).

In January 2018, we completed an underwritten public offering of 2,265,500 shares of our common stock for net proceeds of approximately \$70.0 million under a universal shelf registration statement on Form S-3 with the SEC, which was declared effective on December 5, 2017 and pursuant to which we registered for sale up to \$125 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. Subsequently, in February 2018, we sold 728,862 shares of our common stock for net proceeds of approximately \$24.2 million pursuant to an at-the-market offering program Sales Agreement that we entered into with Cowen in October 2017. Under the Sales Agreement, we may offer and sell, from time to time at our discretion, shares of our common stock through Cowen as our sales agent. Under the sales agreement, Cowen may sell the shares by any method permitted by law deemed to be an "at the market" offering as defined in Rule 415 of the Securities Act of 1933, as amended. We are not obligated to make any sales of common stock under the sales agreement. As of June 30, 2018, approximately \$25.2 million of securities remain available for issuance under the shelf registration statement, including up to \$25.0 million of our common stock available for issuance under the at-the-market offering program sales agreement.

In October 2017, we entered into an asset purchase agreement pursuant to which we sold legacy intellectual property of our predecessor, Bidel, for \$4.5 million.

In May 2017, we completed an underwritten public offering of 2,530,000 shares of our common stock at a price to the public of \$20.50 per share. Our net proceeds from the offering, after underwriting discounts, commissions and offering expenses, were \$48.5 million.

In April 2012, 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, April 2016 and December 2017. As of May 1, 2018, we have received approximately \$45.4 million in upfront and milestone payments from EA Pharma under this agreement. We are eligible to receive an additional payment of €4.3 million under the agreement (\$5.0 million based on the Euro to USD exchange rate as of June 30, 2018) if a specified regulatory event is achieved for elobixibat. In addition, subject to the terms of the RIAA with HCR, we may in the future also become eligible under the license agreement to receive up to ¥3.5 billion if specified sales milestones are achieved for elobixibat.

Cash Flows

Six Months Ended June 30, 2018 and June 30, 2017

	Six Months Ended June 30,	
	2018	2017
	(in thousands)	
Net cash provided by (used in):		
Operating activities	\$ (6,519)	(14,428)
Investing activities	(61)	(146)
Financing activities	138,929	46,922
Total	\$ 132,349	\$ 32,348
Effect of exchange rate changes on cash and cash equivalents	(2,352)	319
Net increase in cash and cash equivalents	<u>129,997</u>	<u>32,667</u>

Operating activities

Net cash used in operating activities for the six months ended June 30, 2018 was \$6.5 million compared to net cash used in operating activities of \$14.4 million for the corresponding 2017 period, a change of \$7.9 million. The change is primarily due to the milestone payment from EA Pharma of \$11.2 million during the 2018 period.

Investing activities

Net cash used in investing activities was \$61,000 for the six months ended June 30, 2018 compared to \$146,000 for the corresponding 2017 period, a decrease of \$85,000. The decrease was due to greater property and equipment purchases in 2017 in connection with our move to our current offices in Boston.

Financing activities

Net cash provided by financing activities for the six months ended June 30, 2018 was \$138.9 million compared to net cash used in financing activities of \$46.9 million for the corresponding 2017 period, a difference of \$92 million. The difference was principally due to our receipt of (i) \$94.2 million in aggregate net proceeds from our public offering in January 2018 and our sales through our at-the-market offering program sales agreement in February 2018, and (ii) \$44.5 million in net proceeds from HCR under our RIAA in February 2018.

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 at least into 2021. 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, duration and any potential delays of, and the results of, our Phase 3 clinical trial of A4250;
- the scope, number, progress, timing of initiation duration, cost, results and timing of clinical trials and nonclinical studies of our current or potential future product candidates;

- whether and to what extent milestone events are achieved under our license agreement with EA Pharma, our RIAA with HCR 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;
- the effect of competing technological and market developments; and
- our ability to comply with regulatory requirements relating to our business, and the costs of compliance with those requirements, including those on data privacy and security.

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. Additionally, if we need to raise additional capital to fund our operations, complete 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.

We filed a universal shelf registration statement on Form S-3 with the SEC, which was declared effective on December 5, 2017 and pursuant to which we registered for sale up to \$125 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. As of June 30, 2018, approximately \$25.2 million of securities remain available for issuance under this shelf registration statement, including up to \$25.0 million of our common stock available for issuance pursuant to the at-the-market offering program sales agreement that we entered into with Cowen in October 2017, as described above.

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

Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. Our market risk exposure is primarily a result of fluctuations in foreign currency exchange rates and interest rates. We do not hold or issue financial instruments for trading purposes.

Foreign Currency Exchange Risk

The functional currency for Albireo Pharma, Inc., Albireo, Inc. and Albireo Security Corp. is the USD, the functional currency for Albireo Limited, Elobix AB and Bidel UK Limited is the Euro, and the functional currency for Albireo AB is the Swedish Krona, or SEK. The Company consolidates its financial statements in USD. Our transactions are denominated in USD, the Euro and SEK, and are exposed to the effects of these exchange rates. Our results of operations and cash flows are, therefore, subject to fluctuations due to changes in foreign currency exchange rates. Fluctuations in currency exchange rates could harm our business in the future. The effect of a 10% adverse change in exchange rates on foreign denominated cash, receivables and payables as of June 30, 2018 would have been material.

To date, we have not entered into any material foreign currency hedging contracts although we may do so in the future.

Interest Rate Sensitivity

As of June 30, 2018, we had approximately \$183.2 million in cash and cash equivalents. Our surplus cash and cash equivalents are invested in interest-bearing accounts from time to time which earn interest based on the terms agreed for each account. We have not entered into investments for trading or speculative purposes. Due to the short-term nature of these investments, we believe that we do not have any material exposure to changes in the fair value of our investment portfolio as a result of changes in interest rates. Declines in interest rates, however, will reduce future investment income. If overall interest rates had decreased by 10% during the periods presented, our interest income would not have been materially affected.

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 material weaknesses discussed in our “Management’s Report on Internal Control over Financial Reporting” in our Form 10-K for the year ended December 31, 2017 and 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 Weaknesses and Remediation of Material Weaknesses

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. We have identified material weaknesses in our internal control over financial reporting, as described below. 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.

As previously disclosed, management has identified material weaknesses that are pervasive in our internal control processes and involve the control environment, risk assessment, control activity and monitoring components of the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control-Integrated Framework (2013 framework). Specifically, the material weaknesses relate to: an insufficiently staffed finance organization with the requisite knowledge of U.S. GAAP and SEC reporting or skills in and ability to focus on internal control over financial reporting matters; not fully designing, implementing and monitoring policies or financial reporting controls that identify and sufficiently mitigate risks of material misstatement to the financial statements; and insufficient design, implementation and monitoring of general information technology controls to support the effective operation of financial controls.

We became a public company via a share exchange transaction completed in November 2016. Prior to that, our parent company was a private entity domiciled in the United Kingdom. We have historically not had the people, processes and systems in place in order to have operating controls over our financial statement close process appropriate for a public company.

Management is committed to the planning and implementation of remediation efforts to address the material weaknesses, and significant progress has been made to date. These remediation efforts, summarized below, which have been implemented or are in process of implementation, are intended to both address the identified material weaknesses and to enhance our overall financial control environment. In particular, we:

- hired a full-time chief financial officer in July 2016;
- hired a controller in March 2017;
- hired an accounting manager in March 2017;
- hired a staff accountant in Sweden in September 2017;
- are in the process of hiring a senior director of finance;
- implemented a new accounting information system in the second quarter of fiscal year 2018;
- are redesigning our accounting processes with the implementation of the new system;
- are developing and are in the process of implementing formal policies and documentation procedures related to financial reporting; and
- engaged additional external resources to support and supplement our existing internal resources.

When fully implemented and operational, we believe the measures described above will remediate the material weaknesses we have identified and strengthen our internal control over financial reporting. We expect that the material weaknesses will be remediated prior to the filing of our Annual Report on Form 10-K for the year ending December 31, 2018. The material weaknesses will not be considered remediated until the remediated controls operate for a sufficient period of time and management has concluded, through testing, that the controls are operating effectively. We are committed to continuing to improve our internal control processes and will continue to diligently and vigorously review our financial reporting controls and procedures. As we continue to evaluate and work to improve our internal control over financial reporting, our management may determine to take additional measures.

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 six months ended June 30, 2018 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II — OTHER INFORMATION

Item 1A. Risk Factors

There have been no material changes to the risk factors described in our Annual Report on Form 10-K for the year ended December 31, 2017, filed with the Securities and Exchange Commission on March 27, 2018 except that the following risk factor has been modified to reflect the European Union's General Data Protection Regulation that took effect in the quarter ended June 30, 2018.

We are subject to anti-corruption laws, as well as export control laws, data protection laws, customs laws, sanctions laws and other laws governing our operations. If we fail to comply with these laws, we could be subject to civil or criminal penalties, other remedial measures and legal expenses, which could adversely affect our business, results of operations and financial condition.

Our operations are subject to anti-corruption laws, including the U.S. Foreign Corrupt Practices Act, or the FCPA, and other anti-corruption laws that apply in countries where we do business and may do business in the future. The FCPA and these other laws generally prohibit us, our officers, and our employees and intermediaries from bribing, being bribed or making other prohibited payments to government officials or other persons to obtain or retain business or gain some other business advantage. We may in the future operate in jurisdictions that pose a high risk of potential FCPA violations and we may participate in collaborations and relationships with third parties whose actions could potentially subject us to liability under the FCPA or local anti-corruption laws. In addition, we cannot predict the nature, scope or effect of future regulatory requirements to which our international operations might be subject or the manner in which existing laws might be administered or interpreted.

We are also subject to other laws and regulations governing our international operations, including regulations administered by the government of the United States and authorities in the European Union, including applicable export control regulations, economic sanctions on countries and persons, customs requirements and currency exchange regulations, collectively referred to as the Trade Control laws. In addition, various statutes and rules in Europe and elsewhere around the world regulate privacy and data protection, which affect our collection, use, storage, and transfer of information both abroad and in the United States. New laws and regulations are periodically being enacted in this area, which remains in a state of flux. Monitoring and complying with these laws requires substantial financial resources.

In particular, the European Union's General Data Protection Regulation, or GDPR, took effect in May 2018, and will require us to meet new and more stringent requirements regarding the handling of personal data about European Union residents. The GDPR is a complex law and the regulatory guidance is still evolving. Furthermore, many of the countries within the European Union are still in the process of drafting supplementary data protection legislation in key fields where the GDPR allows for national variation, including the fields of clinical study and other health-related information. Failure to meet GDPR requirements could result in penalties of up to 4% of our worldwide revenue. While we have taken steps to comply with the GDPR, including reviewing our security procedures, revising our clinical study informed consent forms, and entering into data processing agreements with relevant contractors, we cannot assure you that our efforts to remain in compliance will be fully successful.

There is no assurance that we will be completely effective in ensuring our compliance with all applicable anti-corruption laws, including the FCPA or other legal requirements, including Trade Control and data protection laws. If we are not in compliance with these laws, we may be subject to criminal and civil penalties, disgorgement and other sanctions and remedial measures, civil lawsuits and damages, orders to stop transferring or using personal data, and legal expenses, which could have an adverse impact on our business, financial condition, results of operations and liquidity. Likewise, any investigation of any potential violations of the FCPA, other anti-corruption laws, Trade Control laws or data protection laws by U.S. or other authorities could also have an adverse impact on our reputation, our business, results of operations and financial condition.

Item 6. Exhibits

<u>Exhibit No.</u>	<u>Description</u>	<u>Filed Herewith</u>	<u>Incorporated by Reference Herein from Form or Schedule</u>	<u>Filing Date</u>	<u>SEC File/ Req. Number</u>
10.1	2018 Equity Incentive Plan	X			
10.2	Form of Stock Option Agreement under the 2018 Equity Incentive Plan	X			
10.3	2018 Employee Stock Purchase Plan	X			
10.4	Employment Agreement dated as of May 16, 2018 by and between the Registrant and Jason G. Duncan	X			
10.5	Form of Restricted Stock Unit Agreement under the 2018 Equity Incentive Plan	X			
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 June 30, 2018, formatted in XBRL (eXtensible Business Reporting Language): (i) Condensed Consolidated Balance Sheets (unaudited) at June 30, 2018 and December 31, 2017, (ii) Condensed Consolidated Statements of Operations (unaudited) for the three and six months ended June 30, 2018 and 2017, (iii) Condensed Consolidated Statements of Comprehensive Income (Loss) (unaudited) for the three and six months ended June 30, 2018 and 2017, (iv) Condensed Consolidated Statements of Cash Flows (unaudited) for the six months ended June 30, 2018 and 2017, and (v) Notes to Condensed Consolidated Financial Statements (unaudited).	X			

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: August 9, 2018

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

ALBIREO PHARMA, INC.
2018 EQUITY INCENTIVE PLAN

1. DEFINITIONS.

Unless otherwise specified or unless the context otherwise requires, the following terms, as used in this Albireo Pharma, Inc. 2018 Equity Incentive Plan, have the following meanings:

Administrator means the Board of Directors, unless it has delegated power to act on its behalf to the Committee, in which case the term Administrator means the Committee.

Affiliate means a corporation which, for purposes of Section 424 of the Code, is a parent or subsidiary of the Company, direct or indirect.

Agreement means an agreement between the Company and a Participant pertaining to a Stock Right delivered pursuant to the Plan in such form as the Administrator shall approve.

Board of Directors means the Board of Directors of the Company.

Cause means, with respect to a Participant: (a) dishonesty with respect to the Company or any Affiliate, (b) insubordination, substantial malfeasance or non-feasance of duty, (c) unauthorized disclosure of confidential information, (d) breach by a Participant of any provision of any employment, consulting, advisory, nondisclosure, non-competition or similar agreement between the Participant and the Company or any Affiliate, and (e) conduct substantially prejudicial to the business of the Company or any Affiliate; provided, however, that any provision in an agreement between a Participant and the Company or an Affiliate, which contains a conflicting definition of Cause for termination and which is in effect at the time of such termination, shall supersede this definition with respect to that Participant. The determination of the Administrator as to the existence of Cause will be conclusive on the Participant and the Company.

Change of Control means the occurrence of any of the following events (unless otherwise specified in an Agreement):

Ownership. Any "Person" (as such term is used in Sections 13(d) and 14(d) of the Exchange Act) becomes the "Beneficial Owner" (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of securities of the Company representing 50% or more of the total voting power represented by the Company's then outstanding voting securities (excluding for this purpose any such voting securities held by the Company or its Affiliates or by any employee benefit plan of the Company) pursuant to a transaction or a series of related transactions which the Board of Directors does not approve; or

Merger/Sale of Assets. (A) A merger or consolidation of the Company whether or not approved by the Board of Directors, other than a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or the parent of such corporation) more than 50% of the total voting power represented by the voting securities of the Company or such surviving entity or parent of such corporation, as the case may be, outstanding immediately after such merger or consolidation; or (B) the sale or disposition by the Company of all or substantially all of the Company's assets in a transaction requiring stockholder approval; or

Change in Board Composition. A change in the composition of the Board of Directors, as a result of which fewer than a majority of the directors are Incumbent Directors. "Incumbent Directors" shall mean directors who either (A) are directors of the Company on June 8, 2018, or (B) are elected, or nominated for election, to the Board of Directors with the affirmative votes of at least a majority of the Incumbent Directors at the time of such election or nomination (but shall not include an individual whose election or nomination is in connection with an actual or threatened proxy contest relating to the election of directors to the Company).

provided, that if any payment or benefit payable hereunder upon or following a Change of Control would be required to comply with the limitations of Section 409A(a)(2)(A)(v) of the Code in order to avoid an additional tax under Section 409A of the Code, such payment or benefit shall be made only if such Change of Control constitutes a change in ownership or control of the Company, or a change in ownership of the Company's assets in accordance with Section 409A of the Code.

Code means the United States Internal Revenue Code of 1986, as amended, including any successor statute, regulation and guidance thereto.

Committee means the committee of the Board of Directors to which the Board of Directors has delegated power to act under or pursuant to the provisions of the Plan.

Common Stock means shares of the Company's common stock, \$.01 par value per share.

Company means Albireo Pharma, Inc., a Delaware corporation.

Consultant means any natural person who is an advisor or consultant that provides bona fide services to the Company or its Affiliates, provided that such services are not in connection with the offer or sale of securities in a capital raising transaction, and do not directly or indirectly promote or maintain a market for the Company's or its Affiliates' securities.

Corporate Transaction means the Company is consolidated with or acquired by another entity in a merger, consolidation, or sale of all or substantially all of the Company's assets or the acquisition of all of the outstanding voting stock of the Company in a single transaction or a series of related transactions by a single entity, other than a transaction to merely change the state of incorporation.

Disability or Disabled means permanent and total disability as defined in Section 22(e)(3) of the Code.

Employee means any employee of the Company or of an Affiliate (including, without limitation, an employee who is also serving as an officer or director of the Company or of an Affiliate), designated by the Administrator to be eligible to be granted one or more Stock Rights under the Plan.

Exchange Act means the Securities Exchange Act of 1934, as amended.

Fair Market Value of a Share of Common Stock means:

If the Common Stock is listed on a national securities exchange or traded in the over-the-counter market and sales prices are regularly reported for the Common Stock, the closing or, if not applicable, the last price of the Common Stock on the composite tape or other comparable reporting system for the trading day on the applicable date and if such applicable date is not a trading day, the last market trading day prior to such date;

If the Common Stock is not traded on a national securities exchange but is traded on the over-the-counter market, if sales prices are not regularly reported for the Common Stock for the trading day referred to in clause (1), and if bid and asked prices for the Common Stock are regularly reported, the mean between the bid and the asked price for the Common Stock at the close of trading in the over-the-counter market for the trading day on which Common Stock was traded on the applicable date and if such applicable date is not a trading day, the last market trading day prior to such date; and

If the Common Stock is neither listed on a national securities exchange nor traded in the over-the-counter market, such value as the Administrator, in good faith, shall determine in compliance with applicable laws.

ISO means an option intended to qualify as an incentive stock option under Section 422 of the Code.

Non-Qualified Option means an option which is not intended to qualify as an ISO.

Option means an ISO or Non-Qualified Option granted under the Plan.

Participant means an Employee, director or Consultant of the Company or an Affiliate to whom one or more Stock Rights are granted under the Plan. As used herein, "Participant" shall include Participant's Survivors where the context requires.

Performance Based Award means a Stock Grant or Stock-Based Award which vests based on the attainment of written Performance Goals as set forth in Paragraph 9 hereof.

Performance Goals means performance goals determined by the Committee in its sole discretion and set forth in an Agreement. The satisfaction of Performance Goals shall be subject to certification by the Committee. The Committee has the authority to take appropriate action with respect to the Performance Goals (including, without limitation, making adjustments to the Performance Goals or determining the satisfaction of the Performance Goals, in each case, in connection with a Corporate Transaction) provided that any such action does not otherwise violate the terms of the Plan.

Plan means this Albireo Pharma, Inc. 2018 Equity Incentive Plan.

Securities Act means the Securities Act of 1933, as amended.

Shares means shares of the Common Stock as to which Stock Rights have been or may be granted under the Plan or any shares of capital stock into which the Shares are changed or for which they are exchanged within the provisions of Paragraph 3 of the Plan. The Shares issued under the Plan may be authorized and unissued shares or shares held by the Company in its treasury, or both.

Stock-Based Award means a grant by the Company under the Plan of an equity award or an equity based award which is not an Option or a Stock Grant.

Stock Grant means a grant by the Company of Shares under the Plan.

Stock Right means a right to Shares or the value of Shares of the Company granted pursuant to the Plan -- an ISO, a Non-Qualified Option, a Stock Grant or a Stock-Based Award.

Survivor means a deceased Participant's legal representatives and/or any person or persons who acquired the Participant's rights to a Stock Right by will or by the laws of descent and distribution.

2. PURPOSES OF THE PLAN.

The Plan is intended to encourage ownership of Shares by Employees and directors of and certain Consultants to the Company and its Affiliates in order to attract and retain such people, to induce them to work for the benefit of the Company or of an Affiliate and to provide additional incentive for them to promote the success of the Company or of an Affiliate. The Plan provides for the granting of ISOs, Non-Qualified Options, Stock Grants and Stock-Based Awards.

3. SHARES SUBJECT TO THE PLAN.

(a) The number of Shares which may be issued from time to time pursuant to this Plan shall be the sum of:

- (i) 1,200,000 Shares; plus
- (ii) up to 1,078,870 shares of Common Stock that are represented by awards granted under the Company's 2016 Equity Incentive Plan, the Company's 2010 Stock Incentive Plan or the Company's 2017 Inducement Equity Incentive Plan (which includes up to 117,000 shares of Common Stock represented by awards granted under the Company's 2017 Inducement Equity Incentive Plan) that are forfeited, expire or are cancelled without delivery of shares of Common Stock on or after June 8, 2018; or the equivalent of such number of Shares after the Administrator, in its sole discretion, has interpreted the effect of any stock split, stock dividend, combination, recapitalization or similar transaction in accordance with Paragraph 25 of the Plan; provided that no more than 2,278,870 such shares may be granted under the Plan as ISOs.

(b) If an Option ceases to be "outstanding," in whole or in part (other than by exercise), or if the Company shall reacquire (at not more than its original issuance price) any Shares issued pursuant to a Stock Grant or Stock-Based Award, or if any Stock Right expires or is forfeited, cancelled, or otherwise terminated or results in any Shares not being issued, the unissued or reacquired Shares which were subject to such Stock Right shall again be available for issuance from time to time pursuant to this Plan, subject, in the case of ISOs, to any limitations under the Code. Notwithstanding the foregoing: (i) if a Stock Right is exercised, in whole or in part, by the tender or withholding of Shares or if the Company or an Affiliate's tax withholding obligation is satisfied by the tender or withholding of Shares, the number of Shares deemed to have been issued under the Plan for purposes of the limitation set forth in Paragraph 3(a) above shall be the gross number of Shares that were subject to the Stock Right or portion thereof and not the net number of Shares actually issued; and (ii) any Shares purchased on the open market from the proceeds of an exercise of a Stock Right shall not be available for issuance pursuant to this Plan.

4. ADMINISTRATION OF THE PLAN.

The Administrator of the Plan will be the Board of Directors, except to the extent the Board of Directors delegates its authority to the Committee, in which case the Committee shall be the Administrator. Subject to the provisions of the Plan, the Administrator is authorized to:

(a) Interpret the provisions of the Plan and all Stock Rights and to make all rules and determinations which it deems necessary or advisable for the administration of the Plan;

(b) Determine which Employees, directors and Consultants shall be granted Stock Rights;

(c) Determine the number of Shares for which a Stock Right or Stock Rights shall be granted; provided however that in no event shall Stock Rights to be granted to any non-employee director under the Plan in any calendar year exceed an aggregate grant date fair value of \$300,000, except that the foregoing limitation shall not apply to awards made (i) pursuant to an election by a non-employee director to receive the award in lieu of cash for all or a portion of cash fees to be received for service on the Board or any Committee thereof or (ii) in connection with a non-employee director initially joining the Board of Directors;

(d) Specify the terms and conditions upon which a Stock Right or Stock Rights may be granted; provided, however, except in the case of (i) death, disability or retirement of the Participant or (ii) a Change of Control, Stock Rights shall not vest, and any right of the Company to restrict or reacquire Shares subject to a Stock Grant shall not lapse, less than one (1) year from the date of grant and any Stock Right subject to the satisfaction of Performance Goals over a performance period shall be subject to a performance period of not less than one year, provided that any time-based vesting with respect to such Stock Right or Stock Grant may accrue incrementally pursuant to the terms of such Stock Right or Stock Grant over such one-year period; and provided further that, notwithstanding the foregoing, Stock Rights may be granted having time-based vesting of less than one (1) year from the date of grant so long as no more than five percent (5%) of the Shares reserved for issuance under the Plan pursuant to Paragraph 3(a) above (as adjusted under Paragraph 25 of this Plan) may be granted in the aggregate pursuant to such awards other than Stock Rights granted to non-employee directors paid in lieu of cash fees; in addition no dividends or dividend equivalents shall be paid on any Stock Right prior to the vesting of the underlying shares;

(e) Amend any term or condition of any outstanding Stock Right, other than reducing the exercise price or purchase price or extending the expiration date of an Option, provided that (i) such term or condition as amended is not prohibited by the Plan; (ii) any such amendment shall not impair the rights of a Participant under any Stock Right previously granted without such Participant's consent or in the event of death of the Participant the Participant's Survivors; and (iii) any such amendment shall be made only after the Administrator determines whether such amendment would cause any adverse tax consequences to the Participant, including, but not limited to, the annual vesting limitation contained in Section 422(d) of the Code and described in Paragraph 6(b)(iv) below with respect to ISOs and pursuant to Section 409A of the Code;

(f) Determine, or make any adjustments in, the Performance Goals included in any Performance-Based Awards; and

(g) Adopt any sub-plans applicable to residents of any specified jurisdiction as it deems necessary or appropriate in order to comply with or take advantage of any tax or other laws applicable to the Company, any Affiliate or to Participants or to otherwise facilitate the administration of the Plan, which sub-plans may include additional restrictions or conditions applicable to Stock Rights or Shares issuable pursuant to a Stock Right;

provided, however, that all such interpretations, rules, determinations, terms and conditions shall be made and prescribed in the context of not causing any adverse tax consequences under Section 409A of the Code and preserving the tax status under Section 422 of the Code of those Options which are designated as ISOs. Subject to the foregoing, the interpretation and

construction by the Administrator of any provisions of the Plan or of any Stock Right granted under it shall be final, unless otherwise determined by the Board of Directors, if the Administrator is the Committee. In addition, if the Administrator is the Committee, the Board of Directors may take any action under the Plan that would otherwise be the responsibility of the Committee.

To the extent permitted under applicable law, the Board of Directors or the Committee may allocate all or any portion of its responsibilities and powers to any one or more of its members and may delegate all or any portion of its responsibilities and powers to any other person selected by it. The Board of Directors or the Committee may revoke any such allocation or delegation at any time. Notwithstanding the foregoing, only the Board of Directors or the Committee shall be authorized to grant a Stock Right to any director of the Company or to any "officer" of the Company as defined by Rule 16a-1 under the Exchange Act.

5. ELIGIBILITY FOR PARTICIPATION.

The Administrator will, in its sole discretion, name the Participants in the Plan; provided, however, that each Participant must be an Employee, director or Consultant of the Company or of an Affiliate at the time a Stock Right is granted. Notwithstanding the foregoing, the Administrator may authorize the grant of a Stock Right to a person not then an Employee, director or Consultant of the Company or of an Affiliate; provided, however, that the actual grant of such Stock Right shall be conditioned upon such person becoming eligible to become a Participant at or prior to the time of the execution of the Agreement evidencing such Stock Right. ISOs may be granted only to Employees who are deemed to be residents of the United States for tax purposes. Non-Qualified Options, Stock Grants and Stock-Based Awards may be granted to any Employee, director or Consultant of the Company or an Affiliate. The granting of any Stock Right to any individual shall neither entitle that individual to, nor disqualify him or her from, participation in any other grant of Stock Rights or any grant under any other benefit plan established by the Company or any Affiliate for Employees, directors or Consultants.

6. TERMS AND CONDITIONS OF OPTIONS.

Each Option shall be set forth in writing in an Option Agreement, duly executed by the Company and, to the extent required by law or requested by the Company, by the Participant. The Administrator may provide that Options be granted subject to such terms and conditions, consistent with the terms and conditions specifically required under this Plan, as the Administrator may deem appropriate including, without limitation, subsequent approval by the stockholders of the Company of this Plan or any amendments thereto. The Option Agreements shall be subject to at least the following terms and conditions:

(a) Non-Qualified Options: Each Option intended to be a Non-Qualified Option shall be subject to the terms and conditions which the Administrator determines to be appropriate and in the best interest of the Company, subject to the following minimum standards for any such Non-Qualified Option:

- (i) Exercise Price: Each Option Agreement shall state the exercise price (per share) of the Shares covered by each Option, which exercise price shall be determined by the Administrator and shall be at least equal to the Fair Market Value per share of Common Stock on the date of grant of the Option.
- (ii) Number of Shares: Each Option Agreement shall state the number of Shares to which it pertains.
- (iii) Vesting: Each Option Agreement shall state the date or dates on which it first is exercisable and the date after which it may no longer be exercised, and may provide that the Option rights accrue or become exercisable in installments over a period of months or years, or upon the occurrence of certain performance conditions or the attainment of stated goals or events.
- (iv) Additional Conditions: Exercise of any Option may be conditioned upon the Participant's execution of a stockholders' agreement in a form satisfactory to the Administrator providing for certain protections for the Company and its other stockholders, including requirements that:
 - A. The Participant's or the Participant's Survivors' right to sell or transfer the Shares may be restricted; and
 - B. The Participant or the Participant's Survivors may be required to execute letters of investment intent and must also acknowledge that the Shares will bear legends noting any applicable restrictions.
- (v) Term of Option: Each Option shall terminate not more than ten years from the date of the grant or at such earlier time as the Option Agreement may provide.

(b) ISOs: Each Option intended to be an ISO shall be issued only to an Employee who is deemed to be a resident of the United States for tax purposes, and shall be subject to the following terms and conditions, with such additional restrictions or changes as the Administrator determines are appropriate but not in conflict with Section 422 of the Code and relevant regulations and rulings of the Internal Revenue Service:

- (i) Minimum Standards: The ISO shall meet the minimum standards required of Non-Qualified Options, as described in Paragraph 6(a) above, except clause (i) and (v) thereunder.
- (ii) Exercise Price: Immediately before the ISO is granted, if the Participant owns, directly or by reason of the applicable attribution rules in Section 424(d) of the Code:

- A. 10% or less of the total combined voting power of all classes of stock of the Company or an Affiliate, the exercise price per share of the Shares covered by each ISO shall not be less than 100% of the Fair Market Value per share of the Common Stock on the date of grant of the Option; or
 - B. More than 10% of the total combined voting power of all classes of stock of the Company or an Affiliate, the exercise price per share of the Shares covered by each ISO shall not be less than 110% of the Fair Market Value per share of the Common Stock on the date of grant of the Option.
- (iii) Term of Option: For Participants who own:
- A. 10% or less of the total combined voting power of all classes of stock of the Company or an Affiliate, each ISO shall terminate not more than ten years from the date of the grant or at such earlier time as the Option Agreement may provide; or
 - B. More than 10% of the total combined voting power of all classes of stock of the Company or an Affiliate, each ISO shall terminate not more than five years from the date of the grant or at such earlier time as the Option Agreement may provide.
- (iv) Limitation on Yearly Exercise: The Option Agreements shall restrict the amount of ISOs which may become exercisable in any calendar year (under this or any other ISO plan of the Company or an Affiliate) so that the aggregate Fair Market Value (determined on the date each ISO is granted) of the stock with respect to which ISOs are exercisable for the first time by the Participant in any calendar year does not exceed \$100,000.

7. TERMS AND CONDITIONS OF STOCK GRANTS.

Each Stock Grant to a Participant shall state the principal terms in an Agreement duly executed by the Company and, to the extent required by law or requested by the Company, by the Participant. The Agreement shall be in a form approved by the Administrator and shall contain terms and conditions which the Administrator determines to be appropriate and in the best interest of the Company, subject to the following minimum standards:

- (a) Each Agreement shall state the purchase price per share, if any, of the Shares covered by each Stock Grant, which purchase price shall be determined by the Administrator but shall not be less than the minimum consideration required by the Delaware General Corporation Law, if any, on the date of the grant of the Stock Grant;
- (b) Each Agreement shall state the number of Shares to which the Stock Grant pertains;

(c) Each Agreement shall include the terms of any right of the Company to restrict or reacquire the Shares subject to the Stock Grant, including the time period or attainment of Performance Goals or such other performance criteria upon which such rights shall accrue and the purchase price therefor, if any; and

(d) Dividends (other than stock dividends to be issued pursuant to Section 25 of the Plan) may accrue but shall not be paid prior to the time, and may be paid only to the extent that, the restrictions or rights to reacquire the Shares subject to the Stock Grant lapse.

8. TERMS AND CONDITIONS OF OTHER STOCK-BASED AWARDS.

The Administrator shall have the right to grant other Stock-Based Awards based upon the Common Stock having such terms and conditions as the Administrator may determine, including, without limitation, the grant of Shares based upon certain conditions, the grant of securities convertible into Shares and the grant of stock appreciation rights, phantom stock awards or stock units. The principal terms of each Stock-Based Award shall be set forth in an Agreement, duly executed by the Company and, to the extent required by law or requested by the Company, by the Participant. The Agreement shall be in a form approved by the Administrator and shall contain terms and conditions which the Administrator determines to be appropriate and in the best interest of the Company. Each Agreement shall include the terms of any right of the Company including the right to terminate the Stock-Based Award without the issuance of Shares, the terms of any vesting conditions, Performance Goals or events upon which Shares shall be issued, provided that dividends (other than stock dividends to be issued pursuant to Section 25 of the Plan) or dividend equivalents may accrue but shall not be paid prior to, and may be paid only to the extent that, the Shares subject to the Stock-Based Award vest. Under no circumstances may the Agreement covering stock appreciation rights (a) have an exercise price (per share) that is less than the Fair Market Value per share of Common Stock on the date of grant or (b) expire more than ten years following the date of grant.

The Company intends that the Plan and any Stock-Based Awards granted hereunder be exempt from the application of Section 409A of the Code or meet the requirements of paragraphs (2), (3) and (4) of subsection (a) of Section 409A of the Code, to the extent applicable, and be operated in accordance with Section 409A so that any compensation deferred under any Stock-Based Award (and applicable investment earnings) shall not be included in income under Section 409A of the Code. Any ambiguities in the Plan shall be construed to effect the intent as described in this Paragraph 8.

9. PERFORMANCE BASED AWARDS.

The Committee shall determine whether, with respect to a performance period, the applicable Performance Goals have been met with respect to a given Participant and, if they have, to so certify and ascertain the amount of the applicable Performance-Based Award. No Performance-Based Awards will be issued for such performance period until such certification is made by the Committee. The number of Shares issued in respect of a Performance-Based Award determined by the Committee for a performance period shall be paid to the Participant at such time as determined by the Committee in its sole discretion after the end of such performance period, and any dividends (other than stock dividends to be issued pursuant to Section 25 of the Plan) or dividend equivalents that accrue shall only be paid in respect of the number of Shares earned in respect of such Performance-Based Award.

10. EXERCISE OF OPTIONS AND ISSUE OF SHARES.

An Option (or any part or installment thereof) shall be exercised by giving written notice to the Company or its designee (in a form acceptable to the Administrator, which may include electronic notice), together with provision for payment of the aggregate exercise price in accordance with this Paragraph for the Shares as to which the Option is being exercised, and upon compliance with any other condition(s) set forth in the Option Agreement. Such notice shall be signed by the person exercising the Option (which signature may be provided electronically in a form acceptable to the Administrator), shall state the number of Shares with respect to which the Option is being exercised and shall contain any representation required by the Plan or the Option Agreement. Payment of the exercise price for the Shares as to which such Option is being exercised shall be made (a) in United States dollars in cash or by check; or (b) at the discretion of the Administrator, through delivery of shares of Common Stock held for at least six months (if required to avoid negative accounting treatment) having a Fair Market Value equal as of the date of the exercise to the aggregate cash exercise price for the number of Shares as to which the Option is being exercised; or (c) at the discretion of the Administrator, by having the Company retain from the Shares otherwise issuable upon exercise of the Option, a number of Shares having a Fair Market Value equal as of the date of exercise to the aggregate exercise price for the number of Shares as to which the Option is being exercised; or (d) at the discretion of the Administrator, in accordance with a cashless exercise program established with a securities brokerage firm, and approved by the Administrator; or (e) at the discretion of the Administrator, by any combination of (a), (b), (c) and (d) above or (f) at the discretion of the Administrator, by payment of such other lawful consideration as the Administrator may determine. Notwithstanding the foregoing, the Administrator shall accept only such payment on exercise of an ISO as is permitted by Section 422 of the Code.

The Company shall then reasonably promptly deliver the Shares as to which such Option was exercised to the Participant (or to the Participant's Survivors, as the case may be). In determining what constitutes "reasonably promptly," it is expressly understood that the issuance and delivery of the Shares may be delayed by the Company in order to comply with any law or regulation (including, without limitation, state securities or "blue sky" laws) which requires the Company to take any action with respect to the Shares prior to their issuance. The Shares shall, upon delivery, be fully paid, non-assessable Shares.

11. PAYMENT IN CONNECTION WITH THE ISSUANCE OF STOCK GRANTS AND STOCK-BASED AWARDS AND ISSUE OF SHARES.

Any Stock Grant or Stock-Based Award requiring payment of a purchase price for the Shares as to which such Stock Grant or Stock-Based Award is being granted shall be made (a) in United States dollars in cash or by check; or (b) at the discretion of the Administrator, through delivery of shares of Common Stock held for at least six months (if required to avoid negative accounting treatment) and having a Fair Market Value equal as of the date of payment to the purchase price of the Stock Grant or Stock-Based Award; or (c) at the discretion of the Administrator, by any combination of (a) and (b) above; or (d) at the discretion of the Administrator, by payment of such other lawful consideration as the Administrator may determine.

The Company shall when required by the applicable Agreement, reasonably promptly deliver the Shares as to which such Stock Grant or Stock-Based Award was made to the Participant (or to the Participant's Survivors, as the case may be), subject to any escrow provision set forth in the applicable Agreement. In determining what constitutes "reasonably promptly," it is expressly understood that the issuance and delivery of the Shares may be delayed by the Company in order to comply with any law or regulation (including, without limitation, state securities or "blue sky" laws) which requires the Company to take any action with respect to the Shares prior to their issuance.

12. RIGHTS AS A STOCKHOLDER.

No Participant to whom a Stock Right has been granted shall have rights as a stockholder with respect to any Shares covered by such Stock Right except after due exercise of an Option or issuance of Shares as set forth in any Agreement, tender of the aggregate exercise or purchase price, if any, for the Shares being purchased and registration of the Shares in the Company's share register in the name of the Participant.

13. ASSIGNABILITY AND TRANSFERABILITY OF STOCK RIGHTS.

By its terms, a Stock Right granted to a Participant shall not be transferable by the Participant other than (i) by will or by the laws of descent and distribution, or (ii) as approved by the Administrator in its discretion and set forth in the applicable Agreement provided that no Stock Right may be transferred by a Participant for value. Notwithstanding the foregoing, an ISO transferred except in compliance with clause (i) above shall no longer qualify as an ISO. The designation of a beneficiary of a Stock Right by a Participant, with the prior approval of the Administrator and in such form as the Administrator shall prescribe, shall not be deemed a transfer prohibited by this Paragraph. Except as provided above during the Participant's lifetime a Stock Right shall only be exercisable by or issued to such Participant (or his or her legal representative) and shall not be assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and shall not be subject to execution, attachment or similar process. Any attempted transfer, assignment, pledge, hypothecation or other disposition of any Stock Right or of any rights granted thereunder contrary to the provisions of this Plan, or the levy of any attachment or similar process upon a Stock Right, shall be null and void.

14. EFFECT ON OPTIONS OF TERMINATION OF SERVICE OTHER THAN FOR CAUSE OR DEATH OR DISABILITY.

Except as otherwise provided in a Participant's Option Agreement, in the event of a termination of service (whether as an Employee, director or Consultant) with the Company or an Affiliate before the Participant has exercised an Option, the following rules apply:

(a) A Participant who ceases to be an Employee, director or Consultant of the Company or of an Affiliate (for any reason other than termination for Cause, Disability, or death for which events there are special rules in Paragraphs 15, 16, and 17, respectively), may exercise any Option granted to him or her to the extent that the Option is exercisable on the date of such termination of service, but only within such term as the Administrator has designated in a Participant's Option Agreement.

(b) Except as provided in Subparagraph (c) below, or Paragraph 16 or 17, in no event may an Option intended to be an ISO, be exercised later than three months after the Participant's termination of employment.

(c) The provisions of this Paragraph, and not the provisions of Paragraph 16 or 17, shall apply to a Participant who subsequently becomes Disabled or dies after the termination of employment, director status or consultancy; provided, however, in the case of a Participant's Disability or death within three months after the termination of employment, director status or consultancy, the Participant or the Participant's Survivors may exercise the Option within one year after the date of the Participant's termination of service, but in no event after the date of expiration of the term of the Option.

(d) Notwithstanding anything herein to the contrary, if subsequent to a Participant's termination of employment, termination of director status or termination of consultancy, but prior to the exercise of an Option, the Administrator determines that, either prior or subsequent to the Participant's termination, the Participant engaged in conduct which would constitute Cause, then such Participant shall forthwith cease to have any right to exercise any Option.

(e) A Participant to whom an Option has been granted under the Plan who is absent from the Company or an Affiliate because of temporary disability (any disability other than a Disability as defined in Paragraph 1 hereof), or who is on leave of absence for any purpose, shall not, during the period of any such absence, be deemed, by virtue of such absence alone, to have terminated such Participant's employment, director status or consultancy with the Company or with an Affiliate, except as the Administrator may otherwise expressly provide; provided, however, that, for ISOs, any leave of absence granted by the Administrator of greater than ninety days, unless pursuant to a contract or statute that guarantees the right to reemployment, shall cause such ISO to become a Non-Qualified Option on the 181st day following such leave of absence.

(f) Except as required by law or as set forth in a Participant's Option Agreement, Options granted under the Plan shall not be affected by any change of a Participant's status within or among the Company and any Affiliates, so long as the Participant continues to be an Employee, director or Consultant of the Company or any Affiliate.

15. EFFECT ON OPTIONS OF TERMINATION OF SERVICE FOR CAUSE.

Except as otherwise provided in a Participant's Option Agreement, the following rules apply if the Participant's service (whether as an Employee, director or Consultant) with the Company or an Affiliate is terminated for Cause prior to the time that all his or her outstanding Options have been exercised:

(a) All outstanding and unexercised Options as of the time the Participant is notified his or her service is terminated for Cause will immediately be forfeited.

(b) Cause is not limited to events which have occurred prior to a Participant's termination of service, nor is it necessary that the Administrator's finding of Cause occur prior to termination. If the Administrator determines, subsequent to a Participant's termination of service but prior to the exercise of an Option, that either prior or subsequent to the Participant's termination the Participant engaged in conduct which would constitute Cause, then the right to exercise any Option is forfeited.

16. EFFECT ON OPTIONS OF TERMINATION OF SERVICE FOR DISABILITY.

Except as otherwise provided in a Participant's Option Agreement:

(a) A Participant who ceases to be an Employee, director or Consultant of the Company or of an Affiliate by reason of Disability may exercise any Option granted to such Participant to the extent that the Option has become exercisable but has not been exercised on the date of the Participant's termination of service due to Disability; and in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of the Participant's termination of service due to Disability of any additional vesting rights that would have accrued on the next vesting date had the Participant not become Disabled. The proration shall be based upon the number of days accrued in the current vesting period prior to the date of the Participant's termination of service due to Disability.

(b) A Disabled Participant may exercise the Option only within the period ending one year after the date of the Participant's termination of service due to Disability, notwithstanding that the Participant might have been able to exercise the Option as to some or all of the Shares on a later date if the Participant had not been terminated due to Disability and had continued to be an Employee, director or Consultant or, if earlier, within the originally prescribed term of the Option.

(c) The Administrator shall make the determination both of whether Disability has occurred and the date of its occurrence (unless a procedure for such determination is set forth in another agreement between the Company and such Participant, in which case such procedure shall be used for such determination). If requested, the Participant shall be examined by a physician selected or approved by the Administrator, the cost of which examination shall be paid for by the Company.

17. EFFECT ON OPTIONS OF DEATH WHILE AN EMPLOYEE, DIRECTOR OR CONSULTANT.

Except as otherwise provided in a Participant's Option Agreement:

(a) In the event of the death of a Participant while the Participant is an Employee, director or Consultant of the Company or of an Affiliate, such Option may be exercised by the Participant's Survivors to the extent that the Option has become exercisable but has not been exercised on the date of death; and in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of death of any additional vesting rights that would have accrued on the next vesting date had the Participant not died. The proration shall be based upon the number of days accrued in the current vesting period prior to the Participant's date of death.

(b) If the Participant's Survivors wish to exercise the Option, they must take all necessary steps to exercise the Option within one year after the date of death of such Participant, notwithstanding that the decedent might have been able to exercise the Option as to some or all of the Shares on a later date if he or she had not died and had continued to be an Employee, director or Consultant or, if earlier, within the originally prescribed term of the Option.

18. EFFECT OF TERMINATION OF SERVICE ON STOCK GRANTS AND STOCK-BASED AWARDS.

In the event of a termination of service (whether as an Employee, director or Consultant) with the Company or an Affiliate for any reason before the Participant has accepted a Stock Grant or a Stock-Based Award and paid the purchase price, if required, such grant shall terminate.

For purposes of this Paragraph 18 and Paragraph 19 below, a Participant to whom a Stock Grant or a Stock-Based Award has been issued under the Plan who is absent from work with the Company or with an Affiliate because of temporary disability (any disability other than a Disability as defined in Paragraph 1 hereof), or who is on leave of absence for any purpose, shall not, during the period of any such absence, be deemed, by virtue of such absence alone, to have terminated such Participant's employment, director status or consultancy with the Company or with an Affiliate, except as the Administrator may otherwise expressly provide.

In addition, for purposes of this Paragraph 18 and Paragraph 19 below, any change of employment or other service within or among the Company and any Affiliates shall not be treated as a termination of employment, director status or consultancy so long as the Participant continues to be an Employee, director or Consultant of the Company or any Affiliate.

19. EFFECT ON STOCK GRANTS AND STOCK-BASED AWARDS OF TERMINATION OF SERVICE OTHER THAN FOR CAUSE, DEATH OR DISABILITY.

Except as otherwise provided in a Participant's Agreement, in the event of a termination of service for any reason (whether as an Employee, director or Consultant), other than termination for Cause, death or Disability for which there are special rules in Paragraphs 20, 21, and 22 below, before all forfeiture provisions or Company rights of repurchase shall have lapsed, then the Company shall have the right to cancel or repurchase that number of Shares subject to a Stock Grant or Stock-Based Award as to which the Company's forfeiture or repurchase rights have not lapsed.

20. EFFECT ON STOCK GRANTS AND STOCK-BASED AWARDS OF TERMINATION OF SERVICE FOR CAUSE.

Except as otherwise provided in a Participant's Agreement, the following rules apply if the Participant's service (whether as an Employee, director or Consultant) with the Company or an Affiliate is terminated for Cause:

(a) All Shares subject to any Stock Grant or Stock-Based Award that remain subject to forfeiture provisions or as to which the Company shall have a repurchase right shall be immediately forfeited to the Company as of the time the Participant is notified his or her service is terminated for Cause.

(b) Cause is not limited to events which have occurred prior to a Participant's termination of service, nor is it necessary that the Administrator's finding of Cause occur prior to termination. If the Administrator determines, subsequent to a Participant's termination of service, that either prior or subsequent to the Participant's termination the Participant engaged in conduct which would constitute Cause, then all Shares subject to any Stock Grant or Stock-Based Award that remained subject to forfeiture provisions or as to which the Company had a repurchase right on the date of termination shall be immediately forfeited to the Company.

21. EFFECT ON STOCK GRANTS AND STOCK-BASED AWARDS OF TERMINATION OF SERVICE FOR DISABILITY.

Except as otherwise provided in a Participant's Agreement, the following rules apply if a Participant ceases to be an Employee, director or Consultant of the Company or of an Affiliate by reason of Disability: to the extent the forfeiture provisions or the Company's rights of repurchase have not lapsed on the date of Disability, they shall be exercisable; provided, however, that in the event such forfeiture provisions or rights of repurchase lapse periodically, such provisions or rights shall lapse to the extent of a pro rata portion of the Shares subject to such Stock Grant or Stock-Based Award through the date of Disability as would have lapsed had the Participant not become Disabled. The proration shall be based upon the number of days accrued prior to the date of Disability.

The Administrator shall make the determination both as to whether Disability has occurred and the date of its occurrence (unless a procedure for such determination is set forth in another agreement between the Company and such Participant, in which case such procedure shall be used for such determination). If requested, the Participant shall be examined by a physician selected or approved by the Administrator, the cost of which examination shall be paid for by the Company.

22. EFFECT ON STOCK GRANTS AND STOCK-BASED AWARDS OF DEATH WHILE AN EMPLOYEE, DIRECTOR OR CONSULTANT.

Except as otherwise provided in a Participant's Agreement, the following rules apply in the event of the death of a Participant while the Participant is an Employee, director or Consultant of the Company or of an Affiliate: to the extent the forfeiture provisions or the Company's rights of repurchase have not lapsed on the date of death, they shall be exercisable; provided, however, that in the event such forfeiture provisions or rights of repurchase lapse periodically, such provisions or rights shall lapse to the extent of a pro rata portion of the Shares subject to such Stock Grant or Stock-Based Award through the date of death as would have lapsed had the Participant not died. The proration shall be based upon the number of days accrued prior to the Participant's date of death.

23. PURCHASE FOR INVESTMENT.

Unless the offering and sale of the Shares shall have been effectively registered under the Securities Act, the Company shall be under no obligation to issue Shares under the Plan unless and until the following conditions have been fulfilled:

(a) The person who receives a Stock Right shall warrant to the Company, prior to the receipt of Shares, that such person is acquiring such Shares for his or her own account, for investment, and not with a view to, or for sale in connection with, the distribution of any such Shares, in which event the person acquiring such Shares shall be bound by the provisions of the following legend (or a legend in substantially similar form) which shall be endorsed upon the certificate evidencing the Shares issued pursuant to such exercise or such grant of a Stock Right:

“The shares represented by this certificate have been taken for investment and they may not be sold or otherwise transferred by any person, including a pledgee, unless (1) either (a) a Registration Statement with respect to such shares shall be effective under the Securities Act of 1933, as amended, or (b) the Company shall have received an opinion of counsel satisfactory to it that an exemption from registration under such Act is then available, and (2) there shall have been compliance with all applicable state securities laws.”

(b) At the discretion of the Administrator, the Company shall have received an opinion of its counsel that the Shares may be issued in compliance with the Securities Act without registration thereunder.

24. DISSOLUTION OR LIQUIDATION OF THE COMPANY.

Upon the dissolution or liquidation of the Company, all Options granted under this Plan which as of such date shall not have been exercised and all Stock Grants and Stock-Based Awards which have not been accepted, to the extent required under the applicable Agreement, will terminate and become null and void; provided, however, that if the rights of a Participant or a Participant's Survivors have not otherwise terminated and expired, the Participant or the Participant's Survivors will have the right immediately prior to such dissolution or liquidation to exercise or accept any Stock Right to the extent that the Stock Right is exercisable or subject to acceptance as of the date immediately prior to such dissolution or liquidation. Upon the dissolution or liquidation of the Company, any outstanding Stock-Based Awards shall immediately terminate unless otherwise determined by the Administrator or specifically provided in the applicable Agreement.

25. ADJUSTMENTS.

Upon the occurrence of any of the following events, a Participant's rights with respect to any Stock Right granted to him or her hereunder shall be adjusted as hereinafter provided, unless otherwise specifically provided in a Participant's Agreement.

(a) Stock Dividends and Stock Splits. If (i) the shares of Common Stock shall be subdivided or combined into a greater or smaller number of shares or if the Company shall issue any shares of Common Stock as a stock dividend on its outstanding Common Stock, or (ii) additional shares or new or different shares or other securities of the Company or other non-cash assets are distributed with respect to such shares of Common Stock, each Stock Right and the number of shares of Common Stock deliverable thereunder shall be increased or decreased proportionately, and appropriate adjustments shall be made, including in the exercise or purchase price per share and in the Performance Goals applicable to outstanding Performance-Based Awards to reflect such events. The number of Shares subject to the limitations in Paragraph 3(a) and 4(c) shall also be proportionately adjusted upon the occurrence of such events.

(b) Corporate Transactions. In the case of a Corporate Transaction, the Administrator or the board of directors of any entity assuming the obligations of the Company hereunder (the “Successor Board”), shall, as to outstanding Options, either: (i) make appropriate provision for the continuation of such Options by substituting on an equitable basis for the Shares then subject to such Options either the consideration payable with respect to the outstanding shares of Common Stock in connection with the Corporate Transaction or securities of any successor or acquiring entity; or (ii) upon written notice to the Participants, provide that such Options must be exercised (either (A) to the extent then exercisable or (B) at the discretion of the Administrator, any such Options being made partially or fully exercisable for purposes of this Paragraph 25(b)), within a specified number of days of the date of such notice, at the end of which period such Options which have not been exercised shall terminate; or (iii) terminate such Options in exchange for payment of an amount equal to the consideration payable upon consummation of such Corporate Transaction to a holder of the number of shares of Common Stock into which such Option would have been exercisable (either (A) to the extent then exercisable or, (B) at the discretion of the Administrator, any such Options being made partially or fully exercisable for purposes of this Subparagraph) less the aggregate exercise price thereof. For purposes of determining the payments to be made pursuant to Subclause (iii) above, in the case of a Corporate Transaction the consideration for which, in whole or in part, is other than cash, the consideration other than cash shall be valued at the fair value thereof as determined in good faith by the Board of Directors.

Notwithstanding the foregoing, in the event the Corporate Transaction also constitutes a Change of Control, then all Options outstanding on the date of the Corporate Transaction shall vest in full immediately prior to the occurrence of the Change of Control, unless such Options are to be assumed by the acquiring or surviving entity in the Corporate Transaction, in which case they shall retain their original vesting schedule.

With respect to outstanding Stock Grants, the Administrator or the Successor Board, shall make appropriate provision for the continuation of such Stock Grants on the same terms and conditions by substituting on an equitable basis for the Shares then subject to such Stock Grants either the consideration payable with respect to the outstanding Shares of Common Stock in connection with the Corporate Transaction or securities of any successor or acquiring entity. In lieu of the foregoing, in connection with any Corporate Transaction, the Administrator may provide that, upon consummation of the Corporate Transaction, each outstanding Stock Grant shall be terminated in exchange for payment of an amount equal to the consideration payable upon consummation of such Corporate Transaction to a holder of the number of shares of Common Stock comprising such Stock Grant (to the extent such Stock Grant is no longer subject to any forfeiture or repurchase rights then in effect or, at the discretion of the Administrator, all forfeiture and repurchase rights being waived upon such Corporate Transaction).

In taking any of the actions permitted under this Paragraph 25(b), the Administrator shall not be obligated by the Plan to treat all Stock Rights, all Stock Rights held by a Participant, or all Stock Rights of the same type, identically.

(c) Recapitalization or Reorganization. In the event of a recapitalization or reorganization of the Company other than a Corporate Transaction pursuant to which securities of the Company or of another corporation are issued with respect to the outstanding shares of Common Stock, a Participant upon exercising an Option or accepting a Stock Grant after the recapitalization or reorganization shall be entitled to receive for the price paid upon such exercise or acceptance if any, the number of replacement securities which would have been received if such Option had been exercised or Stock Grant accepted prior to such recapitalization or reorganization.

(d) Adjustments to Stock-Based Awards. Upon the happening of any of the events described in Subparagraphs (a), (b) or (c) above, any outstanding Stock-Based Award shall be appropriately adjusted to reflect the events described in such Subparagraphs. The Administrator or the Successor Board shall determine the specific adjustments to be made under this Paragraph 25, including, but not limited to, the effect of any Corporate Transaction and Change of Control, and subject to Paragraph 4, its determination shall be conclusive.

(e) Modification of Options. Notwithstanding the foregoing, any adjustments made pursuant to Subparagraph (a), (b) or (c) above with respect to Options shall be made only after the Administrator determines whether such adjustments would (i) constitute a “modification” of any ISOs (as that term is defined in Section 424(h) of the Code) or (ii) cause any adverse tax consequences for the holders of Options, including, but not limited to, pursuant to Section 409A of the Code. If the Administrator determines that such adjustments made with respect to Options would constitute a modification or other adverse tax consequence, it may in its discretion refrain from making such adjustments, unless the holder of an Option specifically agrees in writing that such adjustment be made and such writing indicates that the holder has full knowledge of the consequences of such “modification” on his or her income tax treatment with respect to the Option. This paragraph shall not apply to the acceleration of the vesting of any ISO that would cause any portion of the ISO to violate the annual vesting limitation contained in Section 422(d) of the Code, as described in Paragraph 6(b)(iv).

26. ISSUANCES OF SECURITIES.

Except as expressly provided herein, no issuance by the Company of shares of stock of any class, or securities convertible into shares of stock of any class, shall affect, and no adjustment by reason thereof shall be made with respect to, the number or price of shares subject to Stock Rights. Except as expressly provided herein, no adjustments shall be made for dividends paid in cash or in property (including without limitation, securities) of the Company prior to any issuance of Shares pursuant to a Stock Right.

27. FRACTIONAL SHARES.

No fractional shares shall be issued under the Plan and the person exercising a Stock Right shall receive from the Company cash in lieu of such fractional shares equal to the Fair Market Value thereof.

28. CONVERSION OF ISOs INTO NON-QUALIFIED OPTIONS; TERMINATION OF ISOs.

The Administrator, at the written request of any Participant, may in its discretion take such actions as may be necessary to convert such Participant's ISOs (or any portions thereof) that have not been exercised on the date of conversion into Non-Qualified Options at any time prior to the expiration of such ISOs, regardless of whether the Participant is an Employee of the Company or an Affiliate at the time of such conversion. At the time of such conversion, the Administrator (with the consent of the Participant) may impose such conditions on the exercise of the resulting Non-Qualified Options as the Administrator in its discretion may determine, provided that such conditions shall not be inconsistent with this Plan. Nothing in the Plan shall be deemed to give any Participant the right to have such Participant's ISOs converted into Non-Qualified Options, and no such conversion shall occur until and unless the Administrator takes appropriate action. The Administrator, with the consent of the Participant, may also terminate any portion of any ISO that has not been exercised at the time of such conversion.

29. WITHHOLDING.

In the event that any federal, state, or local income taxes, employment taxes, Federal Insurance Contributions Act ("F.I.C.A.") withholdings or other amounts are required by applicable law or governmental regulation to be withheld from the Participant's salary, wages or other remuneration in connection with the issuance of a Stock Right or Shares under the Plan or for any other reason required by law, the Company may withhold from the Participant's compensation, if any, or may require that the Participant advance in cash to the Company, or to any Affiliate of the Company which employs or employed the Participant, the statutory minimum amount of such withholdings unless a different withholding arrangement, including the use of shares of the Company's Common Stock or a promissory note, is authorized by the Administrator (and permitted by law). For purposes hereof, the fair market value of the shares withheld for purposes of payroll withholding shall be determined in the manner set forth under the definition of Fair Market Value provided in Paragraph 1 above, as of the most recent practicable date prior to the date of exercise. If the Fair Market Value of the shares withheld is less than the amount of payroll withholdings required, the Participant may be required to advance the difference in cash to the Company or the Affiliate employer. The Administrator in its discretion may condition the exercise of an Option for less than the then Fair Market Value on the Participant's payment of such additional withholding.

30. NOTICE TO COMPANY OF DISQUALIFYING DISPOSITION.

Each Employee who receives an ISO must agree to notify the Company in writing immediately after the Employee makes a Disqualifying Disposition of any Shares acquired pursuant to the exercise of an ISO. A Disqualifying Disposition is defined in Section 424(c) of the Code and includes any disposition (including any sale or gift) of such Shares before the later of (a) two years after the date the Employee was granted the ISO, or (b) one year after the date the Employee acquired Shares by exercising the ISO, except as otherwise provided in Section 424(c) of the Code. If the Employee has died before such Shares are sold, these holding period requirements do not apply and no Disqualifying Disposition can occur thereafter.

31. TERMINATION OF THE PLAN.

The Plan will terminate on April 6, 2028, the date which is ten years from the earlier of the date of its adoption by the Board of Directors and the date of its approval by the stockholders of the Company. The Plan may be terminated at an earlier date by vote of the stockholders or the Board of Directors of the Company; provided, however, that any such earlier termination shall not affect any Agreements executed prior to the effective date of such termination. Termination of the Plan shall not affect any Stock Rights theretofore granted.

32. AMENDMENT OF THE PLAN AND AGREEMENTS.

The Plan may be amended by the stockholders of the Company. The Plan may also be amended by the Administrator; provided that any amendment approved by the Administrator which the Administrator determines is of a scope that requires stockholder approval shall be subject to obtaining such stockholder approval including, without limitation, to the extent necessary to qualify any or all outstanding Stock Rights granted under the Plan or Stock Rights to be granted under the Plan for favorable federal income tax treatment as may be afforded incentive stock options under Section 422 of the Code and to the extent necessary to qualify the Shares issuable under the Plan for listing on any national securities exchange or quotation in any national automated quotation system of securities dealers. Other than as set forth in Paragraph 25 of the Plan, the Administrator may not without stockholder approval reduce the exercise price of an Option or cancel any outstanding Option in exchange for a replacement option having a lower exercise price, any Stock Grant, any other Stock-Based Award or for cash. In addition, the Administrator not take any other action that is considered a direct or indirect “repricing” for purposes of the stockholder approval rules of the applicable securities exchange or inter-dealer quotation system on which the Shares are listed, including any other action that is treated as a repricing under generally accepted accounting principles. Any modification or amendment of the Plan shall not, without the consent of a Participant, adversely affect his or her rights under a Stock Right previously granted to him or her, unless such amendment is required by applicable law or necessary to preserve the economic value of such Stock Right. With the consent of the Participant affected, the Administrator may amend outstanding Agreements in a manner which may be adverse to the Participant but which is not inconsistent with the Plan. In the discretion of the Administrator, outstanding Agreements may be amended by the Administrator in a manner which is not adverse to the Participant. Nothing in this Paragraph 32 shall limit the Administrator’s authority to take any action permitted pursuant to Paragraph 25.

33. EMPLOYMENT OR OTHER RELATIONSHIP.

Nothing in this Plan or any Agreement shall be deemed to prevent the Company or an Affiliate from terminating the employment, consultancy or director status of a Participant, nor to prevent a Participant from terminating his or her own employment, consultancy or director status or to give any Participant a right to be retained in employment or other service by the Company or any Affiliate for any period of time.

34. SECTION 409A.

If a Participant is a “specified employee” as defined in Section 409A of the Code (and as applied according to procedures of the Company and its Affiliates) as of his separation from service, to the extent any payment under this Plan or pursuant to the grant of a Stock-Based Award constitutes deferred compensation (after taking into account any applicable exemptions from Section 409A of the Code), and to the extent required by Section 409A of the Code, no payments due under this Plan or pursuant to a Stock-Based Award may be made until the earlier of: (i) the first day of the seventh month following the Participant’s separation from service, or (ii) the Participant’s date of death; provided, however, that any payments delayed during this six-month period shall be paid in the aggregate in a lump sum, without interest, on the first day of the seventh month following the Participant’s separation from service.

The Administrator shall administer the Plan with a view toward ensuring that Stock Rights under the Plan that are subject to Section 409A of the Code comply with the requirements thereof and that Options under the Plan be exempt from the requirements of Section 409A of the Code, but neither the Administrator nor any member of the Board, nor the Company nor any of its Affiliates, nor any other person acting hereunder on behalf of the Company, the Administrator or the Board shall be liable to a Participant or any Survivor by reason of the acceleration of any income, or the imposition of any additional tax or penalty, with respect to a Stock Right, whether by reason of a failure to satisfy the requirements of Section 409A of the Code or otherwise.

35. INDEMNITY.

Neither the Board nor the Administrator, nor any members of either, nor any employees of the Company or any parent, subsidiary, or other Affiliate, shall be liable for any act, omission, interpretation, construction or determination made in good faith in connection with their responsibilities with respect to this Plan, and the Company hereby agrees to indemnify the members of the Board, the members of the Committee, and the employees of the Company and its parent or subsidiaries in respect of any claim, loss, damage, or expense (including reasonable counsel fees) arising from any such act, omission, interpretation, construction or determination to the full extent permitted by law.

36. CLAWBACK.

Notwithstanding anything to the contrary contained in this Plan, the Company may recover from a Participant any compensation received from any Stock Right (whether or not settled) or cause a Participant to forfeit any Stock Right (whether or not vested) in the event that the Company’s Clawback Policy as then in effect, if any, is triggered.

37. GOVERNING LAW.

This Plan shall be construed and enforced in accordance with the laws of the State of Delaware.

ALBIREO PHARMA, INC.
Stock Option Grant Notice
Stock Option Grant under the Company's
2018 Equity Incentive Plan

1. Name and Address of Participant: _____

2. Date of Option Grant: _____
3. Type of Grant: _____
4. Maximum Number of Shares for which
this Option is exercisable: _____
5. Exercise (purchase) price per share: _____
6. Option Expiration Date: _____
7. Vesting Start Date: _____
8. Vesting Schedule: This Option shall become exercisable (and the Shares issued upon
exercise shall be vested) as follows provided the Participant is an Employee, director or
Consultant of the Company or of an Affiliate on the applicable vesting date:

[Insert Vesting Schedule]

The foregoing rights are cumulative and are subject to the other terms and conditions of this Agreement and the Plan.

The Company and the Participant acknowledge receipt of this Stock Option Grant Notice and agree to the terms of the Stock Option Agreement attached hereto and incorporated by reference herein, the Company's 2018 Equity Incentive Plan and the terms of this Option Grant as set forth above.

ALBIREO PHARMA, INC.

By: _____
Name: _____
Title: _____

Participant

ALBIREO PHARMA, INC.

STOCK OPTION AGREEMENT - INCORPORATED TERMS AND CONDITIONS

AGREEMENT made as of the date of grant set forth in the Stock Option Grant Notice by and between Albireo Pharma, Inc. (the "Company"), a Delaware corporation, and the individual whose name appears on the Stock Option Grant Notice (the "Participant").

WHEREAS, the Company desires to grant to the Participant an Option to purchase shares of its common stock, \$0.01 par value per share (the "Shares"), under and for the purposes set forth in the Company's 2018 Equity Incentive Plan (the "Plan");

WHEREAS, the Company and the Participant understand and agree that any capitalized terms used and not defined herein have the same meanings as in the Plan; and

WHEREAS, the Company and the Participant each intend that the Option granted herein shall be of the type set forth in the Stock Option Grant Notice.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and for other good and valuable consideration, the parties hereto agree as follows:

1. **GRANT OF OPTION.**

The Company hereby grants to the Participant the right and option to purchase all or any part of an aggregate of the number of Shares set forth in the Stock Option Grant Notice, on the terms and conditions and subject to all the limitations set forth herein, under United States securities and tax laws, and in the Plan, which is incorporated herein by reference. The Participant acknowledges receipt of a copy of the Plan.

2. **EXERCISE PRICE.**

The exercise price of the Shares covered by the Option shall be the amount per Share set forth in the Stock Option Grant Notice, subject to adjustment, as provided in the Plan, in the event of a stock split, reverse stock split or other events affecting the holders of Shares after the date hereof (the "Exercise Price"). Payment shall be made in accordance with Paragraph 11 of the Plan.

3. **EXERCISABILITY OF OPTION.**

Subject to the terms and conditions set forth in this Agreement and the Plan, the Option granted hereby shall become vested and exercisable as set forth in the Stock Option Grant Notice and is subject to the other terms and conditions of this Agreement and the Plan.

4. TERM OF OPTION.

This Option shall terminate on the Option Expiration Date as specified in the Stock Option Grant Notice and, if this Option is designated in the Stock Option Grant Notice as an ISO and the Participant owns, as of the date hereof, more than 10% of the total combined voting power of all classes of capital stock of the Company or an Affiliate, such date may not be more than five years from the date of this Agreement, but shall be subject to earlier termination as provided herein or in the Plan.

If the Participant ceases to be an Employee, director or Consultant of the Company or of an Affiliate for any reason other than the death or Disability of the Participant, or termination of the Participant for Cause (the "Termination Date"), the Option to the extent then vested and exercisable pursuant to Section 3 hereof as of the Termination Date, and not previously terminated in accordance with this Agreement, may be exercised within three months after the Termination Date, or on or prior to the Option Expiration Date as specified in the Stock Option Grant Notice, whichever is earlier, but may not be exercised thereafter except as set forth below. In such event, the unvested portion of the Option shall not be exercisable and shall expire and be cancelled on the Termination Date.

If this Option is designated in the Stock Option Grant Notice as an ISO and the Participant ceases to be an Employee of the Company or of an Affiliate but continues after termination of employment to provide service to the Company or an Affiliate as a director or Consultant, this Option shall continue to vest in accordance with Section 3 above as if this Option had not terminated until the Participant is no longer providing services to the Company. In such case, this Option shall automatically convert and be deemed a Non-Qualified Option as of the date that is three months from termination of the Participant's employment and this Option shall continue on the same terms and conditions set forth herein until such Participant is no longer providing service to the Company or an Affiliate.

Notwithstanding the foregoing, in the event of the Participant's Disability or death within three months after the Termination Date, the Participant or the Participant's Survivors may exercise the Option within one year after the Termination Date, but in no event after the Option Expiration Date as specified in the Stock Option Grant Notice.

In the event the Participant's service is terminated by the Company or an Affiliate for Cause, the Participant's right to exercise any unexercised portion of this Option even if vested shall cease immediately as of the time the Participant is notified his or her service is terminated for Cause, and this Option shall thereupon terminate. Notwithstanding anything herein to the contrary, if subsequent to the Participant's termination, but prior to the exercise of the Option, the Administrator determines that, either prior or subsequent to the Participant's termination, the Participant engaged in conduct which would constitute Cause, then the Participant shall immediately cease to have any right to exercise the Option and this Option shall thereupon terminate.

In the event of the Disability of the Participant, as determined in accordance with the Plan, the Option shall be exercisable within one year after the Participant's termination of service due to Disability or, if earlier, on or prior to the Option Expiration Date as specified in the Stock Option Grant Notice. In such event, the Option shall be exercisable:

- (a) to the extent that the Option has become exercisable but has not been exercised as of the date of the Participant's termination of service due to Disability; and
- (b) in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of the Participant's termination of service due to Disability of any additional vesting rights that would have accrued on the next vesting date had the Participant not become Disabled. The proration shall be based upon the number of days accrued in the current vesting period prior to the date of the Participant's termination of service due to Disability.

In the event of the death of the Participant while an Employee, director or Consultant of the Company or of an Affiliate, the Option shall be exercisable by the Participant's Survivors within one year after the date of death of the Participant or, if earlier, on or prior to the Option Expiration Date as specified in the Stock Option Grant Notice. In such event, the Option shall be exercisable:

- (x) to the extent that the Option has become exercisable but has not been exercised as of the date of death; and
- (y) in the event rights to exercise the Option accrue periodically, to the extent of a pro rata portion through the date of death of any additional vesting rights that would have accrued on the next vesting date had the Participant not died. The proration shall be based upon the number of days accrued in the current vesting period prior to the Participant's date of death.

5. METHOD OF EXERCISING OPTION.

Subject to the terms and conditions of this Agreement, the Option may be exercised by written notice to the Company or its designee, in substantially the form of Exhibit A attached hereto (or in such other form acceptable to the Company, which may include electronic notice). Such notice shall state the number of Shares with respect to which the Option is being exercised and shall be signed by the person exercising the Option (which signature may be provided electronically in a form acceptable to the Company). Payment of the Exercise Price for such Shares shall be made in accordance with Paragraph 11 of the Plan. The Company shall deliver such Shares as soon as practicable after the notice shall be received, provided, however, that the Company may delay issuance of such Shares until completion of any action or obtaining of any consent, which the Company deems necessary under any applicable law (including, without limitation, state securities or "blue sky" laws). The Shares as to which the Option shall have been so exercised shall be registered in the Company's share register in the name of the

person so exercising the Option (or, if the Option shall be exercised by the Participant and if the Participant shall so request in the notice exercising the Option, shall be registered in the Company's share register in the name of the Participant and another person jointly, with right of survivorship) and shall be delivered as provided above to or upon the written order of the person exercising the Option. In the event the Option shall be exercised, pursuant to Section 4 hereof, by any person other than the Participant, such notice shall be accompanied by appropriate proof of the right of such person to exercise the Option. All Shares that shall be purchased upon the exercise of the Option as provided herein shall be fully paid and nonassessable.

6. PARTIAL EXERCISE.

Exercise of this Option to the extent above stated may be made in part at any time and from time to time within the above limits, except that no fractional share shall be issued pursuant to this Option.

7. NON-ASSIGNABILITY.

The Option shall not be transferable by the Participant otherwise than by will or by the laws of descent and distribution. If this Option is a Non-Qualified Option then it may also be transferred pursuant to a qualified domestic relations order as defined by the Code or Title I of the Employee Retirement Income Security Act or the rules thereunder and the Participant, with the approval of the Administrator, may transfer the Option for no consideration to or for the benefit of the Participant's Immediate Family (including, without limitation, to a trust for the benefit of the Participant's Immediate Family or to a partnership or limited liability company for one or more members of the Participant's Immediate Family), subject to such limits as the Administrator may establish, and the transferee shall remain subject to all the terms and conditions applicable to the Option prior to such transfer and each such transferee shall so acknowledge in writing as a condition precedent to the effectiveness of such transfer. The term "Immediate Family" shall mean the Participant's spouse, former spouse, parents, children, stepchildren, adoptive relationships, sisters, brothers, nieces, nephews and grandchildren (and, for this purpose, shall also include the Participant). Except as provided above in this paragraph, the Option shall be exercisable, during the Participant's lifetime, only by the Participant (or, in the event of legal incapacity or incompetency, by the Participant's guardian or representative) and shall not be assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and shall not be subject to execution, attachment or similar process. Any attempted transfer, assignment, pledge, hypothecation or other disposition of the Option or of any rights granted hereunder contrary to the provisions of this Section 7, or the levy of any attachment or similar process upon the Option shall be null and void.

8. NO RIGHTS AS STOCKHOLDER UNTIL EXERCISE.

The Participant shall have no rights as a stockholder with respect to Shares subject to this Agreement until registration of the Shares in the Company's share register in the name of the Participant. Except as is expressly provided in the Plan with respect to certain changes in the capitalization of the Company, no adjustment shall be made for dividends or similar rights for which the record date is prior to the date of such registration.

9. ADJUSTMENTS.

The Plan contains provisions covering the treatment of Options in a number of contingencies such as stock splits and mergers. Provisions in the Plan for adjustment with respect to stock subject to Options and the related provisions with respect to successors to the business of the Company are hereby made applicable hereunder and are incorporated herein by reference, including, but not limited to, the acceleration of vesting provision contained in Paragraph 25 of the Plan.

10. TAXES.

The Participant acknowledges and agrees that (i) any income or other taxes due from the Participant with respect to this Option or the Shares issuable pursuant to this Option shall be the Participant's responsibility; (ii) the Participant was free to use professional advisors of his or her choice in connection with this Agreement, has received advice from his or her professional advisors in connection with this Agreement, understands its meaning and import, and is entering into this Agreement freely and without coercion or duress; (iii) the Participant has not received and is not relying upon any advice, representations or assurances made by or on behalf of the Company or any Affiliate or any employee of or counsel to the Company or any Affiliate regarding any tax or other effects or implications of the Option, the Shares or other matters contemplated by this Agreement; and (iv) neither the Administrator, the Company, its Affiliates, nor any of its officers or directors, shall be held liable for any applicable costs, taxes, or penalties associated with the Option if, in fact, the Internal Revenue Service were to determine that the Option constitutes deferred compensation under Section 409A of the Code.

If this Option is designated in the Stock Option Grant Notice as a Non-Qualified Option or if the Option is an ISO and is converted into a Non-Qualified Option and such Non-Qualified Option is exercised, the Participant agrees that the Company may withhold from the Participant's remuneration, if any, the minimum statutory amount of federal, state and local withholding taxes attributable to such amount that is considered compensation includable in such person's gross income. At the Company's discretion, the amount required to be withheld may be withheld in cash from such remuneration, or in kind from the Shares otherwise deliverable to the Participant on exercise of the Option. The Participant further agrees that, if the Company does not withhold an amount from the Participant's remuneration sufficient to satisfy the Company's income tax withholding obligation, the Participant will reimburse the Company on demand, in cash, for the amount under-withheld.

11. PURCHASE FOR INVESTMENT.

Unless the offering and sale of the Shares to be issued upon the particular exercise of the Option shall have been effectively registered under the Securities Act, the Company shall be under no obligation to issue the Shares covered by such exercise unless the Company has determined that such exercise and issuance would be exempt from the registration requirements of the Securities Act and until the following conditions have been fulfilled:

- (a) The person(s) who exercise the Option shall warrant to the Company, at the time of such exercise, that such person(s) are acquiring such Shares for their own respective accounts, for investment, and not with a view to, or for sale in connection with, the distribution of any such Shares, in which event the person(s) acquiring such Shares shall be bound by the provisions of the following legend which shall be endorsed upon any certificate(s) evidencing the Shares issued pursuant to such exercise:

“The shares represented by this certificate have been taken for investment and they may not be sold or otherwise transferred by any person, including a pledgee, unless (1) either (a) a Registration Statement with respect to such shares shall be effective under the Securities Act of 1933, as amended, or (b) the Company shall have received an opinion of counsel satisfactory to it that an exemption from registration under such Act is then available, and (2) there shall have been compliance with all applicable state securities laws;” and

(b) If the Company so requires, the Company shall have received an opinion of its counsel that the Shares may be issued upon such particular exercise in compliance with the Securities Act without registration thereunder. Without limiting the generality of the foregoing, the Company may delay issuance of the Shares until completion of any action or obtaining of any consent, which the Company deems necessary under any applicable law (including without limitation state securities or “blue sky” laws).

12. RESTRICTIONS ON TRANSFER OF SHARES.

12.1 The Participant agrees that in the event the Company proposes to offer for sale to the public any of its equity securities and such Participant is requested by the Company and any underwriter engaged by the Company in connection with such offering to sign an agreement restricting the sale or other transfer of Shares, then it will promptly sign such agreement and will not transfer, whether in privately negotiated transactions or to the public in open market transactions or otherwise, any Shares or other securities of the Company held by him or her during such period as is determined by the Company and the underwriters, not to exceed 180 days following the closing of the offering, plus such additional period of time as may be required to comply with FINRA rules or similar rules thereto promulgated by another regulatory authority (such period, the “Lock-Up Period”). Such agreement shall be in writing and in form and

substance reasonably satisfactory to the Company and such underwriter and pursuant to customary and prevailing terms and conditions. Whether or not the Participant has signed such an agreement, the Company may impose stop-transfer instructions with respect to the Shares or other securities of the Company subject to the foregoing restrictions until the end of the Lock-Up Period.

12.2 The Participant acknowledges and agrees that neither the Company, its shareholders nor its directors and officers, has any duty or obligation to disclose to the Participant any material information regarding the business of the Company or affecting the value of the Shares before, at the time of, or following a termination of the service of the Participant by the Company, including, without limitation, any information concerning plans for the Company to make a public offering of its securities or to be acquired by or merged with or into another firm or entity.

13. NO OBLIGATION TO MAINTAIN RELATIONSHIP.

The Participant acknowledges that: (i) the Company is not by the Plan or this Option obligated to continue the Participant as an employee, director or Consultant of the Company or an Affiliate; (ii) the Plan is discretionary in nature and may be suspended or terminated by the Company at any time; (iii) the grant of the Option is a one-time benefit which does not create any contractual or other right to receive future grants of options, or benefits in lieu of options; (iv) all determinations with respect to any such future grants, including, but not limited to, the times when options shall be granted, the number of shares subject to each option, the option price, and the time or times when each option shall be exercisable, will be at the sole discretion of the Company; (v) the Participant's participation in the Plan is voluntary; (vi) the value of the Option is an extraordinary item of compensation which is outside the scope of the Participant's employment or consulting contract, if any; and (vii) the Option is not part of normal or expected compensation for purposes of calculating any severance, resignation, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments.

14. IF OPTION IS INTENDED TO BE AN ISO.

If this Option is designated in the Stock Option Grant Notice as an ISO so that the Participant (or the Participant's Survivors) may qualify for the favorable tax treatment provided to holders of Options that meet the standards of Section 422 of the Code then any provision of this Agreement or the Plan which conflicts with the Code so that this Option would not be deemed an ISO is null and void and any ambiguities shall be resolved so that the Option qualifies as an ISO. The Participant should consult with the Participant's own tax advisors regarding the tax effects of the Option and the requirements necessary to obtain favorable tax treatment under Section 422 of the Code, including, but not limited to, holding period requirements.

Notwithstanding the foregoing, to the extent that the Option is designated in the Stock Option Grant Notice as an ISO and is not deemed to be an ISO pursuant to Section 422(d) of the Code because the aggregate Fair Market Value (determined as of the Date of Option Grant) of any of the Shares with respect to which this ISO is granted becomes exercisable for the

first time during any calendar year in excess of \$100,000, the portion of the Option representing such excess value shall be treated as a Non-Qualified Option and the Participant shall be deemed to have taxable income measured by the difference between the then Fair Market Value of the Shares received upon exercise and the price paid for such Shares pursuant to this Agreement.

Neither the Company nor any Affiliate shall have any liability to the Participant, or any other party, if the Option (or any part thereof) that is intended to be an ISO is not an ISO or for any action taken by the Administrator, including without limitation the conversion of an ISO to a Non-Qualified Option.

15. NOTICE TO COMPANY OF DISQUALIFYING DISPOSITION OF AN ISO.

If this Option is designated in the Stock Option Grant Notice as an ISO then the Participant agrees to notify the Company in writing immediately after the Participant makes a Disqualifying Disposition of any of the Shares acquired pursuant to the exercise of the ISO. A Disqualifying Disposition is defined in Section 424(c) of the Code and includes any disposition (including any sale) of such Shares before the later of (a) two years after the date the Participant was granted the ISO or (b) one year after the date the Participant acquired Shares by exercising the ISO, except as otherwise provided in Section 424(c) of the Code. If the Participant has died before the Shares are sold, these holding period requirements do not apply and no Disqualifying Disposition can occur thereafter.

16. NOTICES.

Any notices required or permitted by the terms of this Agreement or the Plan shall be given by recognized courier service, facsimile, registered or certified mail, return receipt requested, addressed as follows:

If to the Company:

Albireo Pharma, Inc.
10 Post Office Square, Suite 502 South
Boston, MA 02109
Attention: Chief Financial Officer

If to the Participant at the address set forth on the Stock Option Grant Notice or to such other address or addresses of which notice in the same manner has previously been given. Any such notice shall be deemed to have been given upon the earlier of receipt, one business day following delivery to a recognized courier service or three business days following mailing by registered or certified mail.

17. GOVERNING LAW.

This Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to the conflict of law principles thereof. For the purpose of litigating any dispute that arises under this Agreement, the parties hereby consent to

exclusive jurisdiction in Massachusetts and agree that such litigation shall be conducted in the state courts of Massachusetts or the federal courts of the United States for the District of Massachusetts.

18. BENEFIT OF AGREEMENT.

Subject to the provisions of the Plan and the other provisions hereof, this Agreement shall be for the benefit of and shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

19. ENTIRE AGREEMENT.

This Agreement, together with the Plan, embodies the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof (with the exception of acceleration of vesting provisions contained in any other agreement with the Company). No statement, representation, warranty, covenant or agreement not expressly set forth in this Agreement shall affect or be used to interpret, change or restrict the express terms and provisions of this Agreement. Notwithstanding the foregoing, in all events, this Agreement shall be subject to and governed by the Plan.

20. MODIFICATIONS AND AMENDMENTS.

The terms and provisions of this Agreement may be modified or amended as provided in the Plan.

21. WAIVERS AND CONSENTS.

Except as provided in the Plan, the terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

22. DATA PRIVACY.

By entering into this Agreement, the Participant: (i) authorizes the Company and each Affiliate, and any agent of the Company or any Affiliate administering the Plan or providing Plan recordkeeping services, to disclose to the Company or any of its Affiliates such information and data as the Company or any such Affiliate shall request in order to facilitate the grant of options and the administration of the Plan; and (ii) authorizes the Company and each Affiliate to store and transmit such information in electronic form for the purposes set forth in this Agreement.

NOTICE OF EXERCISE OF STOCK OPTION

[Form for Shares registered in the United States]

To: Albireo Pharma, Inc.

IMPORTANT NOTICE: This form of Notice of Exercise may only be used at such time as the Company has filed a Registration Statement with the Securities and Exchange Commission under which the issuance of the Shares for which this exercise is being made is registered and such Registration Statement remains effective.

Ladies and Gentlemen:

I hereby exercise my Stock Option to purchase _____ shares (the "Shares") of the common stock, \$0.01 par value, of Albireo Pharma, Inc. (the "Company"), at the exercise price of \$ _____ per share, pursuant to and subject to the terms of that Stock Option Grant Notice dated _____, 201_.

I understand the nature of the investment I am making and the financial risks thereof. I am aware that it is my responsibility to have consulted with competent tax and legal advisors about the relevant national, state and local income tax and securities laws affecting the exercise of the Option and the purchase and subsequent sale of the Shares.

I am paying the option exercise price for the Shares as follows:

Please issue the Shares (check one):

to me; or

to me and _____, as joint tenants with right of survivorship,

at the following address:

My mailing address for shareholder communications, if different from the address listed above, is:

Very truly yours,

Participant (signature)

Print Name

Date

Exhibit A-2

ALBIREO PHARMA, INC.

2018 EMPLOYEE STOCK PURCHASE PLAN

The following constitute the provisions of the 2018 Employee Stock Purchase Plan (the “Plan”) of Albireo Pharma, Inc. (the “Company”).

1. Purpose. The purpose of the Plan is to provide Employees of the Company and its Designated Subsidiaries with an opportunity to purchase Common Stock of the Company. It is the intention of the Company to have the Plan qualify as an “Employee Stock Purchase Plan” under Section 423 of the Code. The provisions of the Plan shall, accordingly, be construed so as to extend and limit participation in a manner consistent with the requirements of that section of the Code.

2. Definitions.

(a) “Board” shall mean the Board of Directors of the Company, or a committee of the Board of Directors named by the Board to administer the Plan.

(b) “Code” shall mean the Internal Revenue Code of 1986, as amended.

(c) “Common Stock” shall mean the common stock, \$0.01 par value per share, of the Company.

(d) “Company” shall mean Albireo Pharma, Inc., a Delaware corporation.

(e) “Compensation” shall mean total base salary received by the Employee from the Company or a Designated Subsidiary that is taxable income for federal income tax purposes, excluding (i) payments for overtime, shift premium, incentive compensation, incentive payments, bonuses, commissions and other compensation received from the Company or a Designated Subsidiary, and (ii) relocation, expense reimbursements, tuition or other reimbursements and income realized as a result of participation in any stock option, stock purchase or similar plan of the Company or a Designated Subsidiary.

(f) “Continuous Status as an Employee” shall mean the absence of any interruption or termination of service as an Employee. Continuous Status as an Employee shall not be considered interrupted in the case of a leave of absence agreed to in writing by the Company, provided that such leave is for a period of not more than ninety (90) days or reemployment upon the expiration of such leave is guaranteed by contract or statute.

(g) “Contributions” shall mean all amounts credited to the account of a participant pursuant to the Plan.

(h) “Designated Subsidiaries” shall mean the Subsidiaries which have been designated by the Board from time to time in its sole discretion as eligible to participate in the Plan.

(i) “Employee” shall mean any person who is employed by the Company or one of its Designated Subsidiaries for tax purposes and who is customarily employed for at least twenty (20) hours per week and more than five (5) months in a calendar year by the Company or one of its Designated Subsidiaries.

- (j) “Exercise Date” shall mean the last business day of each Offering Period of the Plan.
- (k) “Exercise Price” shall mean with respect to an Offering Period, an amount equal to 85% of the fair market value (as defined in paragraph 7(b)) of a share of Common Stock on the Offering Date or on the Exercise Date, whichever is lower.
- (l) “Offering Date” shall mean the first business day of each Offering Period of the Plan.
- (m) “Offering Period” shall mean a period of six (6) months as set forth in paragraph 4 of the Plan.
- (n) “Plan” shall mean this Albireo Pharma, Inc. 2018 Employee Stock Purchase Plan.
- (o) “Subsidiary” shall mean a corporation, domestic or foreign, of which not less than 50% of the voting shares are held by the Company or a Subsidiary, whether or not such corporation now exists or is hereafter organized or acquired by the Company or a Subsidiary.

3. Eligibility.

(a) Any person who has been continuously employed as an Employee for three (3) months as of the Offering Date of a given Offering Period shall be eligible to participate in such Offering Period under the Plan and further, subject to the requirements of paragraph 5(a) and the limitations imposed by Section 423(b) of the Code. All Employees granted options under the Plan with respect to any Offering Period will have the same rights and privileges except for any differences that may be permitted pursuant to Section 423.

(b) Any provisions of the Plan to the contrary notwithstanding, no Employee shall be granted an option under the Plan (i) if, immediately after the grant, such Employee (or any other person whose stock would be attributed to such Employee pursuant to Section 424(d) of the Code) would own stock and/or hold outstanding options to purchase stock possessing five percent (5%) or more of the total combined voting power or value of all classes of stock of the Company or of any Subsidiary of the Company, (ii) which permits his or her rights to purchase stock under all employee stock purchase plans (described in Section 423 of the Code) of the Company and its Subsidiaries to accrue at a rate which exceeds \$25,000 of fair market value of such stock as defined in paragraph 7(b) (determined at the time such option is granted) for each calendar year in which such option is outstanding at any time, or (iii) to purchase more than 3,000 shares (subject to any adjustment pursuant to paragraph 18) of Common Stock in any one Offering Period. Any option granted under the Plan shall be deemed to be modified to the extent necessary to satisfy this paragraph 3(b).

4. Offering Periods. The Plan shall be implemented by a series of Offering Periods, with a new Offering Period commencing on June 1 and December 1 of each year or the first business day thereafter (or at such other time or times as may be determined by the Board). The initial Offering Period shall commence at a time to be determined by the Board and shall end on December 1, 2018 (the “Initial Offering Period”).

5. Participation.

(a) An eligible Employee may become a participant in the Plan by completing an Enrollment Form provided by the Company and filing it with the Company or its designee at least fifteen (15) days prior to the applicable Offering Date, unless a later time for filing the Enrollment Form is set by the Board for all eligible Employees with respect to a given Offering Period. The Enrollment Form and its submission may be electronic as directed by the Company. The Enrollment Form shall set forth the percentage of the participant's Compensation (which shall be not less than one percent (1%) and not more than fifteen percent (15%) to be paid as Contributions pursuant to the Plan.

(b) Payroll deductions shall commence with the first payroll following the Offering Date, unless a later time is set by the Board with respect to a given Offering Period, and shall end on the last payroll paid on or prior to the Exercise Date of the Offering Period to which the Enrollment Form is applicable, unless sooner terminated as provided in paragraph 10.

6. Method of Payment of Contributions.

(a) Each participant shall elect to have payroll deductions made on each payroll during the Offering Period in an amount not less than one percent (1%) and not more than fifteen percent (15%) of such participant's Compensation on each such payroll (or such other percentage as the Board may establish from time to time before an Offering Date). All payroll deductions made by a participant shall be credited to his or her account under the Plan. A participant may not make any additional payments into such account.

(b) A participant may discontinue his or her participation in the Plan as provided in paragraph 10, or, on one occasion only during the Offering Period, may decrease, but may not increase, the rate of his or her Contributions during the Offering Period by completing and filing with the Company a new Enrollment Form authorizing a change in the deduction rate. The change in rate shall be effective as of the beginning of the next payroll period following the date of filing of the new Enrollment Form, if the Enrollment Form is completed at least ten (10) business days prior to such date, and, if not, as of the beginning of the next succeeding payroll period.

(c) Notwithstanding the foregoing, to the extent necessary to comply with Section 423(b)(8) of the Code and paragraph 3(b), a participant's payroll deductions may be decreased to 0% at such time during any Offering Period which is scheduled to end during the current calendar year that the aggregate of all payroll deductions accumulated with respect to such Offering Period and any other Offering Period ending within the same calendar year equals \$21,250. Payroll deductions shall recommence at the rate provided in such participant's Enrollment Form at the beginning of the first Offering Period which is scheduled to end in the following calendar year, unless terminated by the participant as provided in paragraph 10.

7. Grant of Option.

(a) On the Offering Date of each Offering Period, each eligible Employee participating in such Offering Period shall be granted an option to purchase on the Exercise Date of such Offering Period a number of shares of the Common Stock determined by dividing such Employee's Contributions accumulated prior to such Exercise Date and retained in the participant's account as of the Exercise Date by the applicable Exercise Price; provided however, that such purchase shall be subject to the limitations set forth in paragraphs 3(b) and 12. The fair market value of a share of the Common Stock shall be determined as provided in paragraph 7(b).

(b) The fair market value of the Common Stock on a given date shall be (i) if the Common Stock is listed on a national securities exchange or traded in the over-the-counter market and sales prices are regularly reported for the Common Stock, the closing or last sale price of the Common Stock for such date (or, in the event that the Common Stock is not traded on such date, on the immediately preceding trading date), on the composite tape or other comparable reporting system; or (ii) if the Common Stock is not listed on a national securities exchange and such price is not regularly reported, the mean between the bid and asked prices per share of the Common Stock at the close of trading in the over-the-counter market.

8. Exercise of Option. Unless a participant withdraws from the Plan as provided in paragraph 10, his or her option for the purchase of shares will be exercised automatically on the Exercise Date of the Offering Period, and the maximum number of full shares subject to the option will be purchased for him or her at the applicable Exercise Price with the accumulated Contributions in his or her account. If a fractional number of shares results, then such number shall be rounded down to the next whole number and any unapplied cash shall be carried forward to the next Exercise Date, unless the participant requests a cash payment. The shares purchased upon exercise of an option hereunder shall be deemed to be transferred to the participant on the Exercise Date. During a participant's lifetime, a participant's option to purchase shares hereunder is exercisable only by him or her.

9. Delivery. Upon the written request of a participant, certificates representing the shares purchased upon exercise of an option will be issued as promptly as practicable after the Exercise Date of each Offering Period to participants who wish to hold their shares in certificate form, except that the Board may determine that such shares shall be held for each participant's benefit by a broker designated by the Board. Any payroll deductions accumulated in a participant's account which are not sufficient to purchase a full Share shall be retained in the participant's account for the subsequent Offering Period, subject to earlier withdrawal by the participant as provided in paragraph 10 below. Any other amounts left over in a participant's account after an Exercise Date shall be returned to the participant.

10. Withdrawal; Termination of Employment.

(a) A participant may withdraw all but not less than all the Contributions credited to his or her account under the Plan at any time prior to the Exercise Date of the Offering Period by giving written notice to the Company or its designee. All of the participant's Contributions credited to his or her account will be paid to him or her promptly after receipt of his or her notice of withdrawal and his or her option for the current period will be automatically terminated, and no further Contributions for the purchase of shares will be made during the Offering Period.

(b) Upon termination of the participant's Continuous Status as an Employee prior to the Exercise Date of the Offering Period for any reason, including retirement or death, the Contributions credited to his or her account will be returned to him or her or, in the case of his or her death, to the person or persons entitled thereto under paragraph 14, and his or her option will be automatically terminated.

(c) In the event an Employee fails to remain in Continuous Status as an Employee for at least 20 hours per week during the Offering Period in which the Employee is a participant, he or she will be deemed to have elected to withdraw from the Plan and the Contributions credited to his or her account will be returned to him or her and his or her option terminated.

(d) A participant's withdrawal from an Offering Period will not have any effect upon his or her eligibility to participate in a succeeding offering or in any similar plan which may hereafter be adopted by the Company.

11. Interest. No interest shall accrue on the Contributions of a participant in the Plan.

12. Stock.

(a) The maximum number of shares of Common Stock which shall be made available for sale under the Plan shall be 300,000 shares, subject to adjustment upon changes in capitalization of the Company as provided in paragraph 18. If the total number of shares which would otherwise be subject to options granted pursuant to paragraph 7(a) on the Offering Date of an Offering Period exceeds the number of shares then available under the Plan (after deduction of all shares for which options have been exercised), the Company shall make a pro rata allocation of the shares remaining available for option grants in as uniform a manner as shall be practicable and as it shall determine to be equitable. Any amounts remaining in an Employee's account not applied to the purchase of shares pursuant to this paragraph 12 shall be refunded on or promptly after the Exercise Date. In such event, the Company shall give written notice of such reduction of the number of shares subject to the option to each Employee affected thereby and shall similarly reduce the rate of Contributions, if necessary.

(b) The participant will have no interest or voting right in shares covered by his or her option until such option has been exercised.

13. Administration. The Board shall supervise and administer the Plan and shall have full power to adopt, amend and rescind any rules deemed desirable and appropriate for the administration of the Plan and not inconsistent with the Plan, to construe and interpret the Plan, and to make all other determinations necessary or advisable for the administration of the Plan.

14. Designation of Beneficiary.

(a) A participant may designate a beneficiary who is to receive any shares and cash, if any, from the participant's account under the Plan in the event of such participant's death subsequent to the end of the Offering Period but prior to delivery to him or her of such shares and cash. In addition, a participant may designate a beneficiary who is to receive any cash from the participant's account under the Plan in the event of such participant's death prior to the Exercise Date of the Offering Period. If a participant is married and the designated beneficiary is not the spouse, spousal consent shall be required for such designation to be effective. Beneficiary designations shall be made either in writing or by electronic delivery as directed by the Company.

(b) Such designation of beneficiary may be changed by the participant (and his or her spouse, if any) at any time by submission of the required notice, which may be electronic. In the event of the death of a participant and in the absence of a beneficiary validly designated under the Plan who is living at the time of such participant's death, the Company shall deliver such shares and/or cash to the executor or administrator of the estate of the participant, or if no such executor or administrator has been appointed (to the knowledge of the Company), the Company, in its discretion, may deliver such shares and/or cash to the spouse or to any one or more dependents or relatives of the participant, or if no spouse, dependent or relative is known to the Company, then to such other person as the Company may designate.

15. Transferability. Neither Contributions credited to a participant's account nor any rights with regard to the exercise of an option or to receive shares under the Plan may be assigned, transferred, pledged or otherwise disposed of in any way (other than by will, the laws of descent and distribution or as provided in paragraph 14) by the participant. Any such attempt at assignment, transfer, pledge or other disposition shall be without effect, except that the Company may treat such act as an election to withdraw funds in accordance with paragraph 10.

16. Use of Funds. All Contributions received or held by the Company under the Plan may be used by the Company for any corporate purpose, and the Company shall not be obligated to segregate such Contributions.

17. Reports. Individual accounts will be maintained for each participant in the Plan. Statements of account will be given to participating Employees promptly following the Exercise Date, which statements will set forth the amounts of Contributions, the per share purchase price, the number of shares purchased and the remaining cash balance, if any.

18. Adjustments Upon Changes in Capitalization. Subject to any required action by the stockholders of the Company, the number of shares of Common Stock covered by unexercised options under the Plan and the number of shares of Common Stock which have been authorized for issuance under the Plan but are not yet subject to options under paragraph 12(a) (collectively, the "Reserves"), the maximum number of shares of Common Stock that may be purchased by a participant in an Offering Period set forth in paragraph 3(b), as well as the price per share of Common Stock covered by each unexercised option under the Plan, shall be proportionately adjusted for any increase or decrease in the number of issued shares of Common Stock resulting from a stock split, reverse stock split, stock dividend, combination or reclassification of the Common Stock. Such adjustment shall be made by the Board, whose determination in that respect shall be final, binding and conclusive.

In the event of the proposed dissolution or liquidation of the Company, an Offering Period then in progress will terminate immediately prior to the consummation of such proposed action, unless otherwise provided by the Board. In the event of a proposed sale of all or substantially all of the assets of the Company, or the merger, consolidation or other capital reorganization of the Company with or into another corporation, each option outstanding under the Plan shall be assumed or an equivalent option shall be substituted by such successor corporation or a parent or subsidiary of such successor corporation, unless the Board determines, in the exercise of its sole discretion and in lieu of such assumption or substitution, to shorten the Offering Period then in progress by setting a new Exercise Date (the "New Exercise Date"). If the Board shortens the Offering Period then in progress in lieu of assumption or substitution in the event of a merger or sale of assets, the Board shall notify each participant in writing, at least ten (10) days prior to the New Exercise Date, that the Exercise Date for his or her option has been changed to the New Exercise Date and that his or her option will be exercised automatically on the New Exercise Date, unless prior to such date he or she has withdrawn from the Offering Period as provided in paragraph 10. For purposes of this paragraph, an option granted under the Plan shall be deemed to be assumed if, following the sale of assets, merger or other reorganization, the option confers the right to purchase, for each share of Common Stock subject to the option immediately prior to the sale of assets, merger or other reorganization, the consideration (whether stock, cash or other securities or property) received in the sale of assets, merger or other reorganization by holders of Common Stock for each share of Common Stock held on the effective date of such transaction (and if such holders were offered a choice of consideration, the type of consideration chosen by the holders of a majority of the outstanding shares of Common Stock); provided, however, that if such consideration received in such transaction was not solely common stock of the successor corporation or its parent (as defined in Section 424(e) of the Code), the Board may, with the consent of the successor corporation, provide for the consideration to be received upon exercise of the option to be solely common stock of the successor corporation or its parent equal in fair market value to the per share consideration received by holders of Common Stock in the sale of assets, merger or other reorganization.

The Board may, if it so determines in the exercise of its sole discretion, also make provision for adjusting the Reserves, as well as the price per share of Common Stock covered by each outstanding option, in the event that the Company effects one or more reorganizations, recapitalizations, rights offerings or other increases or reductions of shares of its outstanding Common Stock, and in the event of the Company being consolidated with or merged into any other corporation.

19. Amendment or Termination.

(a) The Board may at any time terminate or amend the Plan. Except as provided in paragraph 18, no such termination may affect options previously granted, nor may an amendment make any change in any option theretofore granted which adversely affects the rights of any participant provided that an Offering Period may be terminated by the Board on an Exercise Date or by the Board's setting a new Exercise Date with respect to an Offering Period then in progress if the Board determines that termination of the Offering Period is in the best interests of the Company and the stockholders or if continuation of the Offering Period would cause the Company to incur adverse accounting charges in the generally-accepted accounting rules applicable to the Plan. In addition, to the extent necessary to comply with Section 423 of the Code (or any successor rule or provision or any applicable law or regulation), the Company shall obtain stockholder approval in such a manner and to such a degree as so required.

(b) Without stockholder consent and without regard to whether any participant rights may be considered to have been adversely affected, the Board shall be entitled to change the Offering Periods, limit the frequency and/or number of changes in the amount withheld during an Offering Period, establish the exchange ratio applicable to amounts withheld in a currency other than U.S. dollars, permit payroll withholding in excess of the amount designated by a participant in order to adjust for delays or mistakes in the Company's processing of properly completed withholding elections, establish reasonable waiting and adjustment periods and/or accounting and crediting procedures to ensure that amounts applied toward the purchase of Common Stock for each participant properly correspond with amounts withheld from the participant's Compensation, and establish such other limitations or procedures as the Board determines in its sole discretion advisable that are consistent with the Plan.

20. Notices. All notices or other communications by a participant to the Company under or in connection with the Plan shall be deemed to have been duly given when received in the form specified by the Company at the location, or by the person, designated by the Company for the receipt thereof.

21. Conditions Upon Issuance of Shares. Shares shall not be issued with respect to an option unless the exercise of such option and the issuance and delivery of such shares pursuant thereto shall comply with all applicable provisions of law, domestic or foreign, including, without limitation, the Securities Act of 1933, as amended, the Securities Exchange Act of 1934, as amended, the rules and regulations promulgated thereunder, and the requirements of any stock exchange upon which the shares may then be listed, and shall be further subject to the approval of counsel for the Company with respect to such compliance.

As a condition to the exercise of an option, the Company may require the person exercising such option to represent and warrant at the time of any such exercise that the shares are being purchased only for investment and without any present intention to sell or distribute such shares if, in the opinion of counsel for the Company, such a representation is required by any of the aforementioned applicable provisions of law.

22. Information Regarding Disqualifying Dispositions. By electing to participate in the Plan, each participant agrees to provide any information about any transfer of shares of Common Stock acquired under the Plan that occurs within two years after the first business day of the Offering Period in which such shares were acquired as may be requested by the Company or any Subsidiaries in order to assist it in complying with the tax laws.

23. Right to Terminate Employment. Nothing in the Plan or in any agreement entered into pursuant to the Plan shall confer upon any Employee the right to continue in the employment of the Company or any Subsidiary, or affect any right which the Company or any Subsidiary may have to terminate the employment of such Employee.

24. Rights as a Stockholder. Neither the granting of an option nor a deduction from payroll shall constitute an Employee the owner of shares covered by an option. No Employee shall have any right as a stockholder unless and until an option has been exercised, and the shares underlying the option have been registered in the Company's share register.

25. Term of Plan. The Plan became effective upon its adoption by the Board on April 6, 2018 and shall continue in effect for a term of ten (10) years unless sooner terminated under paragraph 19.

26. Applicable Law. This Plan shall be governed in accordance with the laws of the State of Delaware, applied without giving effect to any conflict-of-law principles.

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EMPLOYMENT AGREEMENT

This EMPLOYMENT AGREEMENT (this "Agreement") is made and entered into as of this ___16th day of May, 2018 (the "Effective Date") by and between Albireo Pharma, Inc., a Delaware corporation (the "Company"), and Jason G. Duncan (the "Executive").

RECITALS

The Company desires to employ the Executive and the Executive desires to be employed on the terms and conditions set forth in this Agreement. In consideration of the foregoing premises and the mutual promises, terms, provisions and conditions set forth in this Agreement, the parties hereby agree:

1. Employment.

Subject to the terms and conditions set forth in this Agreement, the Company hereby offers and the Executive hereby accepts employment. Executive's employment shall begin on June 4, 2018 (the "Start Date").

2. Term.

This Agreement will continue in effect until terminated in accordance with Section 5. The term of this Agreement is hereafter referred to as "the term hereof."

3. Capacity and Performance.

(a) During the term hereof, the Executive shall serve the Company as General Counsel. In addition, and without further compensation, the Executive shall serve as a director and/or officer of the Company and/or one or more of the Company's Affiliates if so elected or appointed from time to time.

(b) During the term hereof, the Executive shall be employed by the Company on a full-time basis and shall perform the duties and responsibilities of his position and such other duties and responsibilities on behalf of the Company and its Affiliates as reasonably may be designated from time to time by the Company's Chief Executive Officer (the "CEO"). The Executive's principal work location shall be in Boston, Massachusetts, subject to such business travel as is customary for Executive's position and, in particular, regular travel to the offices of the Company's Affiliate in Sweden.

(c) During the term hereof, the Executive shall devote his full business time and his best efforts, business judgment, skill and knowledge exclusively to the advancement of the business and interests of the Company and its Affiliates and to the discharge of his duties and responsibilities hereunder. The Executive shall not engage in any other business activity or serve in any industry, trade, professional, governmental or academic position during the term of this Agreement, except as may be expressly approved in advance by the CEO in writing; provided, however, that the Executive may without advance consent participate in charitable activities and passive personal investment activities, provided that such activities do not, individually or in the aggregate, interfere with the performance of the Executive's duties under this Agreement, are not in conflict with the business interests of the Company or any of its Affiliates and do not violate Sections 7, 8 or 9 of this Agreement.

(d) During the term hereof, the Executive shall comply with all Company policies, practices and procedures and all codes of ethics or business conduct applicable to the Executive's position, as in effect from time to time.

4. Compensation and Benefits.

As compensation for all services performed by the Executive hereunder during the term hereof, and subject to performance of the Executive's duties and responsibilities to the Company and its Affiliates, pursuant to this Agreement or otherwise:

(a) Base Salary. During the term of this Agreement, the Company shall pay the Executive a base salary at the rate of Three Hundred Twenty-Five Thousand Dollars (\$325,000) per year, payable monthly in equal amounts in accordance with the normal payroll practices of the Company as in effect from time to time and subject to adjustment upward, but not downward, from time to time by the Company's board of directors (the "Board"), in its sole discretion. Such base salary, as from time to time adjusted, is hereafter referred to as the "Base Salary." The Executive hereby consents to the direct deposit of any payments made by the Company under this Agreement into his designated U.S. bank account, and agrees to complete the paperwork necessary to allow for such direct deposit.

(b) Annual Bonus Compensation. For each fiscal year completed during the term hereof, the Executive shall be eligible to participate in any annual bonus plan provided by the Company for its executives generally, as in effect from time to time. The Executive's annual target bonus shall be thirty-five percent (35%) of the Base Salary, subject to adjustment upward, but not downward, from time to time by the Board in its sole discretion (the "Target Bonus"), with the actual amount of the bonus, if any, to be determined by the Board, the Compensation Committee of the Board, or the CEO in accordance with applicable performance criteria reasonably established by the Board or the CEO. In order to earn an annual bonus under this Section 4(b) for any fiscal year, the Executive must be employed by the Company on the last date of the applicable fiscal year. Any annual bonus payable hereunder will be paid at the same time as such bonuses are paid to similarly situated Company executives, but in no event later than two and one-half months following the end of the fiscal year for which the bonus is earned.

(c) Employee Benefit Plans. During the term hereof and subject to any contribution therefore generally required of similarly-situated employees of the Company, the Executive shall be entitled to participate in any and all employee benefit plans from time to time in effect for similarly-situated employees of the Company generally, including any short-term disability plan, long term disability and 401(k) retirement savings plan, except to the extent any employee benefit plan provides for benefits otherwise provided to the Executive hereunder (e.g., a severance pay plan). Such participation shall be subject to (i) the terms of the applicable plan documents and (ii) generally applicable Company policies. The Executive shall have no recourse against the Company in the event that the Company should alter, modify, add to or eliminate any or all of its employee benefit plans.

(d) Business Expenses. The Company shall pay or reimburse the Executive for reasonable, customary and necessary business expenses incurred or paid by the Executive in the performance of his duties and responsibilities hereunder, subject to such reasonable substantiation and documentation and to travel and other policies as may be required by the Company from time to time.

(e) Stock Options. As soon as practicable after the Start Date, the Company shall grant to the Executive a stock option exercisable for 37,500 shares of the Company's common stock, par value \$0.01, at an exercise price equal to the fair market value per share on the date of grant (determined by the Board or a compensation or remuneration committee thereof), such stock option to (x) be subject to the terms of the Company's 2018 Equity Incentive Plan, as may be amended from time to time (the "Plan"), and (y) vest as to 25% of the underlying shares on the first anniversary of the Effective Date and thereafter the remaining 75% of the underlying shares shall vest in equal quarterly installments through the fourth anniversary of the Effective Date, conditioned upon Executive's continuing employment, and subject to other terms and conditions set forth in the award certificate memorializing the Options and the Plan. All rights to purchase capital stock (e.g., stock options, compensatory warrants, restricted stock or the like) of the Company held by the Executive from time to time (collectively, "Options") that are outstanding prior to a Change of Control (as defined below) shall, to the extent unvested or subject to vesting-like restrictions, be fully vested and exercisable (and any vesting-like restrictions shall lapse in full) in the case of each such Option (i) at the time set forth in the equity plan or program under which such Option was granted (and in accordance with the terms of such plan or program) or (ii) if earlier, upon the Change of Control. The foregoing sentence shall be (A) deemed incorporated into each option agreement or similar agreement evidencing awards made to the Executive after the Effective Date and (B) without prejudice to the Executive's right to any earlier acceleration of vesting, continued period of vesting or post-termination rights for the Executive provided for in the applicable plan or program under which such Option was granted or under applicable law. During the term hereof, the Executive may be eligible for additional stock-based awards under the Company's incentive plans, as determined by the Board from time to time. Nothing herein requires the Board to make additional grants of options or other awards in any year.

(f) Signing Bonus. The Executive shall be eligible to receive a signing bonus of Twenty Thousand Dollars (\$20,000) less lawful deductions, which will be paid in one lump-sum as soon as practicable after Executive has been employed with the Company for thirty (30) consecutive days. Executive agrees that he will repay the signing bonus to the Company if, within twelve (12) months of the Start Date, (a) he terminates his employment with the Company without Good Reason (as defined herein) or (b) the Company terminates his employment for Cause (as defined herein).

5. Termination of Employment and Severance Benefits.

The Executive's employment hereunder shall terminate under the following circumstances:

(a) Death. In the event of the Executive's death during the term hereof, the date of death shall be the date of termination, and the Company shall pay or provide to the Executive's designated beneficiary or, if no beneficiary has been designated by the Executive in a notice received by the Company, to his estate: (i) any Base Salary earned but not paid through the date of termination, (iii) any business expenses incurred by the Executive but unreimbursed on the date of termination, provided that such expenses and required substantiation and documentation are submitted within sixty (60) days following termination, that such expenses are reimbursable under Company policy, and that any such expenses subject to Section 5(f)(iv)

shall be paid not later than the deadline specified therein; and (iv) any annual bonus earned but not paid for the fiscal year preceding the fiscal year in which the date of termination occurs (all of the foregoing, payable subject to the timing limitations described herein, “Final Compensation”). The Company shall have no further obligation or liability to the Executive. Other than business expenses described in Section 5(a)(iii), Final Compensation shall be paid to the Executive’s designated beneficiary or estate at the time prescribed by applicable law and in all events within thirty (30) days following the date of death.

(b) Disability.

(i) The Company may terminate the Executive’s employment hereunder, upon notice to the Executive, in the event that the Executive becomes disabled during his employment hereunder through any illness, injury, accident or condition of either a physical or psychological nature and, as a result, is unable to perform substantially all of his duties and responsibilities hereunder (notwithstanding the provision of any reasonable accommodation) for one hundred and eighty (180) days during any period of three hundred and sixty-five (365) consecutive calendar days, whether or not consecutive. In the event of such termination, the Company shall have no further obligation or liability to the Executive, other than for payment of any Final Compensation due the Executive. Other than business expenses described in Section 5(a)(iii), Final Compensation shall be paid to the Executive at the time prescribed by applicable law and in all events within thirty (30) days following the date of termination of employment.

(ii) The Board may designate another employee to act in the Executive’s place during any period of the Executive’s disability. Notwithstanding any such designation, the Executive shall continue to receive the Base Salary in accordance with Section 4(a) and to participate in employee benefit plans in accordance with Section 4(c), to the extent permitted by the then-current terms of the applicable employee benefit plans, until the Executive becomes eligible for disability income benefits under the Company’s disability income plan, if any, or until the termination of his employment, whichever shall first occur. While receiving disability income payments under any Company’s disability income plan, the Executive shall not be entitled to receive any Base Salary under Section 4(a), but shall continue to participate in the employee benefit plans in accordance with Section 4(d) and to the extent permitted by and subject to the then-current terms of such plans, until the termination of his employment hereunder.

(iii) If any question shall arise as to whether the Executive is disabled through any illness, injury, accident or condition of either a physical or psychological nature so as to be unable to perform substantially all of his duties and responsibilities hereunder, the Executive may, and at the request of the Company shall, submit to a medical examination by a physician selected by the Company to whom the Executive or his duly appointed guardian, if any, has no reasonable objection to determine whether the Executive is disabled, and such determination shall for the purposes of this Agreement be conclusive. If such question shall arise and the Executive shall fail to submit to such medical examination, the Company’s determination of the issue shall be binding on the Executive.

(c) By the Company for Cause. The Company may terminate the Executive's employment hereunder for Cause at any time upon notice to the Executive setting forth in reasonable detail the nature of such Cause. The following, as determined by the Board in its reasonable judgment, shall constitute Cause for termination:

(i) The Executive's willful failure to perform, or gross negligence in the performance of, the Executive's material duties and responsibilities to the Company or any of its Affiliates that, if capable of cure, is not cured within thirty (30) days of written notice of such failure or negligence by the Company to the Executive; provided, that the Company will not have to provide more than one notice and opportunity to cure with respect to any multiple, repeated, related or substantially similar events or circumstances;

(ii) Conduct by the Executive that constitutes fraud, embezzlement or other material dishonesty with respect to the Company or any of its Affiliates;

(iii) The Executive's commission of, or plea of nolo contendere to, (A) a felony or (B) other crime involving moral turpitude; or

(iv) The Executive's material breach of this Agreement, any shareholder or option agreement between the Executive and the Company or any of its Affiliates or of any fiduciary duty that the Executive has to the Company or any of its Affiliates that, if capable of cure, is not cured within thirty (30) days of written notice of such breach by the Company to the Executive; provided, that the Company will not have to provide more than one notice and opportunity to cure with respect to any multiple, repeated, related or substantially similar events or circumstances.

Upon the giving of notice of termination of the Executive's employment hereunder for Cause, the Company shall have no further obligation or liability to the Executive, other than for any Final Compensation due to the Executive. Other than business expenses described in Section 5(a)(iii), Final Compensation shall be paid to the Executive at the time prescribed by applicable law and in all events within thirty (30) days following the date of termination of employment.

(d) By the Company without Cause. The Company may terminate the Executive's employment hereunder without Cause at any time upon notice to the Executive. In the event of such termination, in addition to any Final Compensation due to the Executive, the Executive will be entitled to the following (the "Severance Benefits"):

(i) the Company will pay the Executive severance pay, at the same rate as the Base Salary, for twelve (12) months following the date of termination of his employment (the "Severance Period");

(ii) during the Severance Period, provided the Executive elects and remains eligible for COBRA (or mini-COBRA), the Company will pay the Executive a monthly taxable amount equal to the portion of the Executive's health insurance premiums that the Company paid immediately prior to the date of termination (the "Monthly Contribution"); and

(iii) the Company will pay the Executive an amount equal to his then current Target Bonus, payable in substantially equal monthly installments during the Severance Period.

Other than business expenses described in Section 5(a)(iii), Final Compensation shall be paid to the Executive at the time prescribed by applicable law and in all events within thirty (30) days following the date of termination of employment. Any obligation of the Company to provide the Severance Benefits is conditioned, however, on the Executive signing and returning to the Company (without revoking) a timely and effective general release of claims in the form (which shall be provided by the Company within seven (7) days following the date of termination, which shall exclude nonwaivable claims and the Executive's rights to Final Compensation and which shall not require the Executive to agree to post-employment obligations not specifically set forth in this Agreement) by the deadline specified therein, all of which (including the lapse of the period for revoking the release of claims as specified in the release of claims) shall have occurred no later than the sixtieth (60th) calendar day following the date of termination (any such separation agreement submitted by such deadline, the "Release of Claims") and on the Executive's continued compliance in material respects with the obligations of the Executive to the Company and its Affiliates that survive termination of his employment, including without limitation under Sections 7, 8 and 9 of this Agreement. Subject to Section 5(g) below, all Severance Benefits to which the Executive is entitled hereunder shall be payable in accordance with the normal payroll practices of the Company, with the first payment, which shall be retroactive to the day immediately following the date the Executive's employment terminated, being due and payable on the Company's next regular payday for executives that follows the effective date of the Release of Claims. Notwithstanding the foregoing, if the time period to consider, return and revoke the Release of Claims covers two of the Executive's taxable years, any portion of the Severance Benefits that constitutes deferred compensation subject to Section 409A (as defined below) shall in all events be paid in the later taxable year. The Release of Claims required for Severance Benefits in accordance with this Section 5(d) creates legally binding obligations on the part of the Executive and the Company therefore advises the Executive to seek the advice of an attorney before signing the Release of Claims.

(e) By the Executive for Good Reason. The Executive may terminate his employment hereunder for Good Reason by (A) providing notice to the Company specifying in reasonable detail the condition giving rise to the Good Reason no later than the thirtieth (30th) day following the occurrence of that condition; (B) providing the Company a period of thirty (30) days to remedy the condition and so specifying in the notice and (C) terminating his employment for Good Reason within thirty (30) days following the expiration of the period to remedy if the Company fails to remedy the condition. The following, if occurring without the Executive's consent, shall constitute "Good Reason" for termination by the Executive:

(i) a material diminution in the nature or scope of the Executive's title, duties, authority or responsibilities;

(ii) a requirement that the Executive relocate his principal work location to a location more than thirty (30) miles outside of Boston, Massachusetts; or

(iii) a material reduction in Base Salary, which for purposes of this Agreement shall mean a reduction of more than 15% in the aggregate.

In the event of a termination of employment in accordance with this Section 5(e), the Executive will be entitled to receive the Severance Benefits he would have been entitled to receive had he been terminated by the Company other than for Cause pursuant to Section 5(d) above, provided that the Executive signs and returns (without revoking) a timely and effective Release of Claims as set forth in Section 5(d).

(f) By the Executive. The Executive may terminate his employment hereunder at any time upon thirty (30) days' prior written notice to the Company. In the event of termination of the Executive's employment in accordance with this Section 5(f), the Board may elect to waive the period of notice, or any portion thereof, and, if the Board so elects, the Company will pay the Executive the Base Salary for the period so waived. The Company shall also pay the Executive any Final Compensation due him (other than business expenses described in Section 5(a)(iii)) at the time prescribed by applicable law and in all events within thirty (30) days following the date of the termination of employment.

(g) Timing of Payments and Section 409A.

(i) This Agreement and any payments or benefits provided hereunder shall be interpreted, operated and administered in a manner intended to avoid the imposition of additional taxes under Section 409A of the Internal Revenue Code of 1986, as amended (the "Code"). Further, the Company and Executive hereto acknowledge and agree that the form and timing of the payments and benefits to be provided pursuant to this Agreement are intended to be exempt from, or to comply with, one or more exceptions to the requirements of Section 409A of the Code. Notwithstanding anything to the contrary in this Agreement, if at the time of the Executive's termination of employment, the Executive is a "specified employee," as defined below, any and all amounts payable under this Section 5 on account of such separation from service that constitute deferred compensation and would (but for this provision) be payable within six (6) months following the date of termination, shall instead be paid on the next business day following the expiration of such six (6) month period or, if earlier, upon the Executive's death; except (A) to the extent of amounts that do not constitute a deferral of compensation within the meaning of Treasury regulation Section 1.409A-1(b) (including without limitation by reason of the safe harbor set forth in Section 1.409A-1(b)(9)(iii), as determined by the Company in its reasonable good faith discretion); (B) benefits that qualify as excepted welfare benefits pursuant to Treasury regulation Section 1.409A-1(a)(5); or (C) other amounts or benefits that are not subject to the requirements of Section 409A of the Code ("Section 409A").

(ii) For purposes of this Agreement, all references to "termination of employment" and correlative phrases shall be construed to require a "separation from service" (as defined in Section 1.409A-1(h) of the Treasury regulations after giving effect to the presumptions contained therein), and the term "specified employee" means an individual determined by the Company to be a specified employee under Treasury regulation Section 1.409A-1(i).

(iii) Each payment made under this Agreement shall be treated as a separate payment and the right to a series of installment payments under this Agreement is to be treated as a right to a series of separate payments.

(iv) Any payment of or reimbursement for expenses that would constitute nonqualified deferred compensation subject to Section 409A shall be subject to the following additional rules: (i) no reimbursement or payment of any such expense shall affect the Executive's right to reimbursement or payment of any such expense in any other calendar year; (ii) reimbursement or payment of the expense shall be made, if at all, promptly, but not later than the end of the calendar year following the calendar year in which the expense was incurred; and (iii) the right to reimbursement or payment shall not be subject to liquidation or exchange for any other benefit.

(v) In no event shall the Company have any liability relating to the failure or alleged failure of any payment or benefit under this Agreement to comply with, or be exempt from, the requirements of Section 409A.

(h) Exclusive Right to Severance. The Executive agrees that the Severance Benefits to be provided to him in accordance with the terms and conditions set forth in this Agreement are intended to be exclusive with respect to severance or termination pay and post-employment employee benefits. The Executive hereby knowingly and voluntarily waives any right he might otherwise have to participate in or receive benefits under any other plan, program or policy of the Company providing for severance or termination pay or benefits.

6. Effect of Termination.

The provisions of this Section 6 shall apply to any termination of the Executive's employment under this Agreement, whether pursuant to Section 5 or otherwise.

(a) Provision by the Company of Final Compensation and Severance Benefits, if any, that are due the Executive in each case under the applicable termination provision of Section 5 shall constitute the entire obligation of the Company to the Executive with respect to severance or termination pay and post-employment employee benefits.

(b) Except for any right of the Executive to continue group health plan participation in accordance with applicable law, the Executive's participation in all employee benefit plans shall terminate pursuant to the terms of the applicable plan documents based on the date of termination of the Executive's employment without regard to any Base Salary for notice waived pursuant to Section 5(f) hereof or to any Severance Benefits or other payment made to or on behalf of the Executive following such date of termination.

(c) Provisions of this Agreement shall survive any termination of the Executive's employment if so provided herein or if necessary or desirable fully to accomplish the purposes of other surviving provisions, including without limitation the obligations of the Executive under Sections 7, 8 and 9. The obligation of the Company to provide Severance Benefits hereunder, and Executive's right to retain such payments, is expressly conditioned on the Executive's continued compliance in all material respects with Sections 7, 8 and 9. The Executive recognizes that, except as expressly provided in Section 5(d) or Section 5(e), or with respect to Base Salary paid for notice waived pursuant to Section 5(f), no cash compensation or benefits will be earned after termination of employment.

7. Confidential Information.

(a) The Executive acknowledges that the Company and its Affiliates continually develop Confidential Information, that the Executive will develop Confidential Information for the Company or its Affiliates and that the Executive will learn of Confidential Information during the course of employment. The Executive agrees that all Confidential Information which the Executive creates or to which he has access as a result of his employment or other associations with the Company or any of its Affiliates is and shall remain the sole and exclusive property of the Company or its Affiliate, as applicable. The Executive shall comply with the policies and procedures of the Company and its Affiliates for protecting Confidential

Information and shall never disclose to any Person (except as required by applicable law or for the proper performance of his duties and responsibilities to the Company and its Affiliates), or use for his own benefit or gain or the benefit or gain of any other Person, any Confidential Information obtained by the Executive incident to his employment or any other association with the Company or any of its Affiliates. The Executive understands that this restriction shall continue to apply after his employment terminates, regardless of the reason for such termination. Further, the Executive agrees to furnish prompt notice to the Company of any required disclosure of Confidential Information sought pursuant to subpoena, court order or any other legal process or requirement, and agrees to provide the Company a reasonable opportunity to seek protection of the Confidential Information prior to any such disclosure. The confidentiality obligation under this Section 7 shall not apply to information that has become generally known through no wrongful act on the part of the Executive or any other Person having an obligation of confidentiality to the Company or any of its Affiliates. Nothing in this Agreement limits, restricts or in any other way affects the Executive from communicating with any governmental agency or entity, or communicating with any official or staff person of a governmental agency or entity, concerning matters relevant to the governmental agency or entity.

(b) All documents, records, tapes and other media of every kind and description relating to the business, present or otherwise, of the Company or any of its Affiliates and any copies or derivatives (including without limitation electronic), in whole or in part, thereof (the “Documents”), whether or not prepared by the Executive, shall be the sole and exclusive property of the Company and its Affiliates. Except in the proper performance of the Executive’s regular duties for the Company or as expressly authorized in writing in advance by the Board or its expressly authorized designee, the Executive will not copy any Documents or remove any Documents or copies or derivatives thereof from the premises of the Company. The Executive shall safeguard all Documents and shall surrender to the Company at the time his employment terminates, and at such earlier time or times as the Board or its designee may specify, all Documents and other property of the Company or any of its Affiliates and all documents, records and files of the customers and other Persons with whom the Company or any of its Affiliates does business (“Third Party Documents”) and each individually a “Third Party Document”) then in the Executive’s possession or control; provided, however, that if a Document or Third-Party Document is on electronic media, the Executive may, in lieu of surrendering the Document or Third-Party Document, provide a copy to the Company on electronic media and delete and overwrite all other electronic media copies thereof. The Executive also agrees that, upon request of any duly authorized officer of the Company, the Executive shall disclose all passwords and passcodes necessary or desirable to enable the Company or any of its Affiliates or the Persons with whom the Company or any of its Affiliates do business to obtain access to the Documents and Third-Party Documents.

8. Assignment of Rights to Intellectual Property.

The Executive shall promptly and fully disclose all Intellectual Property to the Company. The Executive hereby assigns and agrees to assign to the Company (or as otherwise directed by the Company) the Executive’s full right, title and interest in and to all Intellectual Property. The Executive agrees to execute any and all applications for domestic and foreign patents, copyrights or other proprietary rights and to do such other acts (including without limitation the execution and delivery of instruments of further assurance or confirmation) requested by the Company to

assign the Intellectual Property to the Company (or as otherwise directed by the Company) and to permit the Company to enforce any patents, copyrights or other proprietary rights to the Intellectual Property. The Executive will not charge the Company for time spent in complying with these obligations. All copyrightable works that the Executive creates shall be considered “work made for hire” and shall, upon creation, be owned exclusively by the Company.

9. Restricted Activities.

The Executive agrees that the following restrictions on his activities during and after his employment are necessary to protect the goodwill, Confidential Information and other legitimate interests of the Company and its Affiliates:

(a) While the Executive is employed by the Company and during the twelve (12) month period following the date his employment terminates (or, in the case of a termination of employment by the Executive pursuant to Section 5(f), during the twelve (12) month period following the date, no more than thirty (30) days prior to the date of termination, when the Executive provides written notice of termination to the Company), regardless of the reason therefore (in the aggregate, the “Restricted Period”), the Executive shall not, directly or indirectly, whether as owner, partner, investor, consultant, agent, employee, co-venturer or otherwise, engage in any Competitive Business Activities in any geographic area in which the Company or any of its Affiliates engages in any business activity or is actively planning to engage in any business activity at any time during the Executive’s employment with the Company or, with respect to the portion of the Restricted Period that follows termination of the Executive’s employment, at the time of such termination (the “Restricted Area”). Specifically, but without limiting the foregoing, the Executive agrees not to work or provide services, in any capacity in the Restricted Area, whether as an employee, independent contractor or otherwise, whether with or without compensation, to any Person who is engaged in the business of developing, marketing or selling (i) therapeutic drugs to treat liver disease or constipation or (ii) any other drug that has a therapeutic purpose that is the same or substantially similar to the therapeutic purpose of any drug that the Company or any of its Affiliates is developing, marketing or selling during the Executive’s employment with the Company or, with respect to the portion of the Restricted Period that follows termination of the Executive’s employment, at the time of such termination (“Competitive Business Activities”). Nothing in this Section 9(a), however, shall prevent the Executive’s passive ownership of two (2) percent or less of the equity securities of any publicly traded company.

(b) The Executive agrees that, during his employment with the Company, he will not undertake any outside activity, whether or not competitive with the business of the Company or its Affiliates that could reasonably give rise to a conflict of interest or otherwise interfere with any of his duties for, or obligations to, the Company or any of its Affiliates.

(c) The Executive agrees that, during the Restricted Period, he will not directly or indirectly: (i) solicit or encourage any customer or business partner of the Company or any of its Affiliates to terminate or diminish its relationship with them; or (ii) seek to persuade any such customer or business partner or any prospective customer or business partner of the Company or any of its Affiliates to conduct with anyone else any business or activity which such customer or business partner conducts, or such prospective customer or business partner could conduct, with the Company or any of its Affiliates; provided, however, that these restrictions shall apply (A) only with respect to those Persons who are or have been a customer or business partner of the Company or any of its Affiliates at any time within the immediately preceding two

(2)-year period or whose business has been solicited on behalf of the Company or any of the Affiliates by any of their officers, employees or agents within such two (2)-year period, other than by form letter, blanket mailing or published advertisement, and (B) only if the Executive has performed work for such Person during his employment with the Company or one of its Affiliates or been introduced to, or otherwise had contact with, such Person as a result of his employment or other associations with the Company or one of its Affiliates or has had access to Confidential Information which would assist in the Executive's solicitation of such Person.

(d) The Executive agrees that, during the Restricted Period (excluding any activities undertaken on behalf of the Company or any of its Affiliates in the course of his duties hereunder), the Executive will not, and will not assist any other Person to, (i) hire, engage or solicit for hiring or engagement any employee of the Company or any of its Affiliates or seek to persuade any employee of the Company or any of its Affiliates to discontinue employment or (ii) solicit or encourage any independent contractor providing services to the Company or any of its Affiliates to terminate or diminish its relationship with them; provided, however, that these restrictions shall apply only to employees and independent contractors who have provided services to the Company or any of its Affiliates at any time within the immediately preceding two-(2) year period.

10. Enforcement of Covenants.

The Executive acknowledges that he has carefully read and considered all the terms and conditions of this Agreement, including the restraints imposed upon him pursuant to Sections 7, 8 and 9. The Executive agrees without reservation that each of the restraints contained herein is necessary for the reasonable and proper protection of the goodwill, Confidential Information and other legitimate interests of the Company and its Affiliates; that each and every one of these restraints is reasonable in respect to subject matter, length of time and geographic area; and that these restraints, individually or in the aggregate, will not prevent him from obtaining other suitable employment during the period in which the Executive is bound by them. The Executive further agrees that he will never assert, or permit to be asserted on his behalf, in any forum, any position contrary to the foregoing. The Executive further acknowledges that, were he to breach any of the covenants contained in Sections 7, 8 or 9, the damage to the Company and its Affiliates would be irreparable. The Executive therefore agrees that the Company, in addition to any other remedies available to it, shall be entitled to preliminary and permanent injunctive relief against any breach or threatened breach by the Executive of any of said covenants, without having to post bond, and will additionally be entitled to an award of attorney's fees incurred in connection with securing any relief hereunder. The parties further agree that, in the event that any provision of Section 7, 8 or 9 shall be determined by any court of competent jurisdiction to be unenforceable by reason of its being extended over too great a time, too large a geographic area or too great a range of activities, such provision shall be deemed to be modified to permit its enforcement to the maximum extent permitted by law. The Executive agrees that the Restricted Period shall be tolled, and shall not run, during any period of time in which he is in violation of the terms thereof, in order that the Company and its Affiliates shall have all of the agreed-upon temporal protection recited herein. No breach of any provision of this Agreement by the Company, or any other claimed breach of contract or violation of law, or change in the nature or scope of the Executive's employment relationship with the Company, shall operate to extinguish the Executive's obligation to comply with Sections 7, 8 and 9. Each of the Company's Affiliates shall have the right to enforce all of the Executive's obligations to that Affiliate under this Agreement, including without limitation pursuant to Section 7, 8 or 9.

11. No Conflicting Agreements.

The Executive hereby represents and warrants that the execution of this Agreement and the performance of his obligations hereunder will not breach or be in conflict with any other agreement to which the Executive is a party or is bound and that the Executive is not now subject to any covenants against competition or similar covenants or any other obligations to any Person or to any court order, judgment or decree that would affect the performance of his obligations hereunder. The Executive will not disclose to or use on behalf of the Company any proprietary information of a third party without such party's consent.

12. Definitions.

Capitalized words or phrases shall have the meanings provided in this Section 12 and as provided elsewhere herein:

(a) "Affiliate" means any person or entity directly or indirectly controlling, controlled by or under common control with the Company, where control may be by either management authority or equity interest.

(b) "Code" means the Internal Revenue Code of 1986, as amended.

(c) "Change of Control" has the meaning ascribed to such term in the Plan, which meaning is incorporated herein by reference as if restated in its entirety.

(d) "Confidential Information" means any and all information of the Company and its Affiliates that is not generally available to the public, and any and all information, publicly known in whole or in part or not, which, if disclosed by the Company or any of its Affiliates, would assist in competition against any of them. Confidential Information includes without limitation such information relating to (i) the development, research, testing, manufacturing, marketing and financial activities of the Company and its Affiliates, (ii) the Products, (iii) the costs, sources of supply, financial performance and strategic plans of the Company and its Affiliates, (iv) the identity and special needs of the patients of the Company and its Affiliates and (v) the people and organizations with whom the Company and its Affiliates have business relationships and the nature and substance of those relationships. Confidential Information also includes information that the Company or any of its Affiliates has received, or may receive hereafter, belonging to others or that was received by the Company or any of its Affiliates with any understanding, express or implied, that it would not be disclosed.

(e) "Intellectual Property" means inventions, discoveries, developments, methods, processes, compositions, works, concepts and ideas (whether or not patentable or copyrightable or constituting trade secrets) conceived, made, created, developed or reduced to practice by the Executive (whether alone or with others, whether or not during normal business hours or on or off Company premises) during the Executive's employment and during the period of six (6) months immediately following termination of his employment that relate either to the Services or to any prospective activity of the Company or any of its Affiliates or that result from any work performed by the Executive for the Company or any of its Affiliates or that make use of Confidential Information or any of the equipment or facilities of the Company or any of its Affiliates.

(f) “Person” means a natural person, a corporation, a limited liability company, an association, a partnership, an estate, a trust and any other entity or organization, other than the Company or any of its Affiliates.

(g) “Products” means all products planned, researched, developed, tested, sold, licensed, leased, or otherwise distributed or put into use by the Company or any of its Affiliates, together with all services provided or otherwise planned by the Company or any of its Affiliates, during the Executive’s employment.

13. Withholding.

All payments made by the Company under this Agreement shall be reduced by any tax or other amounts required to be withheld by the Company under applicable law.

14. Section 280G.

(a) In the event that the Company undergoes a “change in ownership or control” (within the meaning of Section 280G of the Code and the regulations and guidance promulgated thereunder (“Section 280G”)) before the Company or any Affiliate of the Company that would be treated, together with the Company, as a single corporation under Section 280G has stock that is readily tradeable on an established securities market or otherwise (within the meaning of Section 280G) and all, or any portion, of the payments provided under this Agreement, either alone or together with other payments or benefits which the Executive receives or is entitled to receive from the Company (collectively, the “Total Payments”), could constitute an “excess parachute payment” within the meaning of Code Section 280G, the Company will use its reasonable best efforts to seek shareholder approval of the Total Payments in a manner that satisfies the requirements of the “shareholder approval” exception to Section 280G, such that, if approved, all Total Payments may be made to the Executive without the application of the excise tax imposed by Section 4999 of the Code.

(b) In the event that the Company undergoes a “change in ownership or control” (within the meaning of Section 280G) before the Company or any Affiliate of the Company that would be treated, together with the Company, as a single corporation under Section 280G has stock that is readily tradeable on an established securities market or otherwise (within the meaning of Section 280G) and all, or any portion, of the Total Payments could constitute an “excess parachute payment” within the meaning of Section 280G, then the Executive shall be entitled to receive (i) an amount limited (to the minimum extent necessary) so that no portion of the Total Payments shall be non-deductible for US federal income taxes by reason of Section 280G (the “Limited Amount”), or (ii) if the amount of the Total Payments (without regard to clause (i)) reduced by the excise tax imposed by Section 4999 of the Code (the “Excise Tax”) and the amount of all other applicable federal, state and local taxes (with income taxes all computed at the highest applicable marginal rate) is greater than the Limited Amount reduced by the amount of all taxes applicable thereto (with income taxes all computed at the highest marginal rate), the amount of the Total Payments otherwise payable without regard to clause (i). If it is determined that the Limited Amount will maximize the Employee’s after-tax proceeds, the Total Payments shall be reduced to equal the Limited Amount in the following order: (i) first, by reducing cash severance payments that are exempt from Section 409A, (ii) second, by reducing other payments and benefits that are exempt from Section 409A and to which Q&A 24(c) of Section 1.280G-1 of the Treasury Regulations does not apply, (iii) third, by reducing all remaining payments and benefits that are exempt from Section 409A and (iv)

finally, by reducing payments and benefits that are subject to Section 409A, in each case, with all such reductions done on a pro rata basis. All determinations made pursuant this Section 14 will be made at the Company's or its Affiliates' expense by an accounting firm or consulting group with experience in performing calculations regarding the applicability of Section 280G and Section 4999 of the Code selected by the Company for such purpose (the "Independent Advisors"). For purposes of such determinations, no portion of the Total Payments shall be taken into account which, in the opinion of the Company and its legal advisors, (y) does not constitute a "parachute payment" within the meaning of Section 280G(b)(2) of the Code (including by reason of Section 280G(b)(4)(A) of the Code) or (z) constitutes reasonable compensation for services actually rendered, within the meaning of Section 280G(b)(4)(B) of the Code, in excess of the "base amount" (as defined in Section 280G(b)(3) of the Code) allocable to such reasonable compensation. In the event it is later determined that (A) a greater reduction in the Total Payments should have been made to implement the objective and intent of this Section 14, the excess amount shall be returned immediately by the Executive to the Company or (B) a lesser reduction in the Total Payments should have been made to implement the objective and intent of this Section 14, the additional amount shall be paid immediately by the Company, or any Affiliate of the Company, as applicable, to the Executive.

15. Assignment.

Neither the Company nor the Executive may make any assignment of this Agreement or any interest herein, by operation of law or otherwise, without the prior written consent of the other; provided, however, that (a) the Company may assign its rights and obligations under this Agreement without the consent of the Executive to one of its Affiliates, or in the event that the Company shall hereafter effect a reorganization with, consolidate with, or merge into, an Affiliate or any Person or transfer or have transferred all or substantially all of its properties, outstanding stock, or assets to an Affiliate or any Person and (b) in the event that all of the Company's rights and obligations under this Agreement are assigned pursuant to this Section 15, each reference to Company herein shall be deemed from and after such assignment instead to be a reference to the assignee. This Agreement shall inure to the benefit of and be binding upon the Company and the Executive, and their respective successors, executors, administrators, heirs and permitted assigns.

16. Severability.

If any portion or provision of this Agreement shall to any extent be declared illegal or unenforceable by a court of competent jurisdiction, then the remainder of this Agreement, or the application of such portion or provision in circumstances other than those as to which it is so declared illegal or unenforceable, shall not be affected thereby, and each portion and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

17. Waiver.

No waiver of any provision hereof shall be effective unless made in writing and signed by the waiving party. The failure of either party to require the performance of any term or obligation of this Agreement, or the waiver by either party of any breach of this Agreement, shall not prevent any subsequent enforcement of such term or obligation or be deemed a waiver of any subsequent breach.

18. Notices.

Any and all notices, requests, demands and other communications provided for by this Agreement shall be in writing and shall be effective when delivered in person, consigned to a reputable national courier service or deposited in the United States mail, postage prepaid, registered or certified, and addressed to the Executive at his last known address on the books of the Company or, in the case of the Company, at its principal place of business, attention of the CEO, or to such other address as either party may specify by notice to the other actually received.

19. Entire Agreement.

This Agreement constitutes the entire agreement between the parties and supersedes and terminates all prior communications, agreements and understandings, written or oral, with respect to the terms and conditions of the Executive's employment relationship with the Company (including, without limitation, the offer letter dated April 30, 2018 and accepted May 2, 2018).

20. Amendment.

This Agreement may be amended or modified only by a written instrument signed by the Executive and by an expressly authorized representative of the Company.

21. Headings.

The headings and captions in this Agreement are for convenience only and in no way define or describe the scope or content of any provision of this Agreement.

22. Counterparts.

This Agreement may be executed in two or more counterparts, each of which shall be an original and all of which together shall constitute one and the same instrument.

23. Governing Law.

This is a Massachusetts contract and shall be construed and enforced under and be governed in all respects by the laws of Massachusetts, without regard to any conflict of laws principles that would result in the application of the laws of any other jurisdiction.

[The remainder of this page has been left blank intentionally.]

IN WITNESS WHEREOF, this Agreement has been executed as a sealed instrument by the Company, by its duly authorized representative, and by the Executive, as of the date first above written.

ALBIREO PHARMA, INC.:

\s\ Jason G. Duncan
Jason G. Duncan

By: \s\ Ronald H.W. Cooper
Name: Ronald H.W. Cooper
Title: President & CEO

ALBIREO PHARMA, INC.
RESTRICTED STOCK UNIT AGREEMENT

Grant Detail

The amounts shown below show the total vested and unvested potential income and are based on a share price of ALBO \$0

Restricted Stock Unit Award Agreement

Participant Name	Name				
Grant Date	MM/DD/YYYY	Grant Price	\$0	Potential Income	\$0
Plan Name	2018 Equity Incentive Plan	Grant Acceptance Status	Pending	Vested	
Plan ID		Expiration/Last Date to Exercise	N/A	Unvested	\$0

Restricted Stock Units Granted	Vested	Unvested	Cancelled	Balance
0	0	0	0	0

Future Vesting

Vesting Date	Vesting Quantity	Potential Income
MM/DD/YYYY	0	\$ 0
MM/DD/YYYY	0	\$ 0
MM/DD/YYYY	0	\$ 0

[Other Vesting Provisions, if any]

* Potential income is based on the closing price from the previous business day
All amounts shown are displayed in \$US dollars.

ALBIREO PHARMA, INC.

RESTRICTED STOCK UNIT TERMS AND CONDITIONS

The following supplements the Grant Detail (the “Grant Detail”) to which these Restricted Stock Unit Terms and Conditions apply, and together with the Grant Detail, constitutes the “Restricted Stock Unit Agreement” referenced in the Grant Detail.

This Restricted Stock Unit Agreement (the “Agreement”) is entered into and made effective as of the grant date referenced in the Grant Detail (the “Grant Date”) and is between Albireo Pharma, Inc., a Delaware corporation (the “Company”), and the employee or consultant of the Company (the “Participant”) referenced in the Grant Detail. Certain capitalized terms, to the extent not defined where they first appear in this Restricted Stock Unit Agreement, are defined in the Company’s 2018 Equity Incentive Plan (the “Plan”).

1. Grant of Award. The Company has granted to the Participant an award for the number of restricted stock units (“RSUs”) referenced in the Grant Detail (the “Award”). Each RSU referenced in the Grant Detail, represents a contingent entitlement of the Participant to receive one share of the Company’s common stock, \$.01 par value per share (the “Shares”), on the terms and conditions and subject to all the limitations set forth herein, under United States securities and tax laws, and in the Plan, which is incorporated herein by reference. The Participant acknowledges receipt of a copy of the Plan.

2. Vesting of Award.

(a) Subject to the terms and conditions set forth in this Agreement and the Plan, the Award granted hereby shall vest as set forth in the Grant Detail and is subject to the other terms and conditions of this Agreement and the Plan.

(b) On each vesting date set forth in the Grant Detail, the Participant shall be entitled to receive such number of Shares equivalent to the number of RSUs as set forth in the Grant Detail provided that the Participant is employed by or providing service to the Company or an Affiliate on the applicable vesting date. Such Shares shall thereafter be delivered by the Company to the Participant within five days of the applicable vesting date and in accordance with this Agreement and the Plan.

(c) Except as otherwise set forth in this Agreement, if the Participant ceases to be employed or providing services for any reason by the Company or by an Affiliate (the “Termination”) prior to a vesting date set forth in the Grant Detail, then as of the date on which the Participant’s employment or service terminates, all unvested RSUs shall immediately be forfeited to the Company and this Agreement shall terminate and be of no further force or effect.

3. Prohibitions on Transfer and Sale. This Award (including any additional RSUs received by the Participant as a result of stock dividends, stock splits or any other similar transaction affecting the Company’s securities without receipt of consideration) shall not be transferable by the Participant otherwise than (i) by will or by the laws of descent and distribution, or (ii) pursuant to a qualified domestic relations order as defined by the Internal Revenue Code or Title I of the Employee Retirement Income Security Act or the rules thereunder. Except as provided in the previous sentence, the shares of Common Stock to be issued pursuant to this Agreement shall be issued, during the Participant’s lifetime, only to the Participant (or, in the event of legal incapacity or incompetence, to the Participant’s guardian or representative). This Award shall not be assigned, pledged or hypothecated in any way (whether by

operation of law or otherwise) and shall not be subject to execution, attachment or similar process. Any attempted transfer, assignment, pledge, hypothecation or other disposition of this Award or of any rights granted hereunder contrary to the provisions of this Section 3, or the levy of any attachment or similar process upon this Award shall be null and void.

4. Adjustments. The Plan contains provisions covering the treatment of RSUs and shares of Common Stock in a number of contingencies, such as stock splits and Corporate Transactions. Provisions in the Plan for adjustment with respect to this Award and the related provisions with respect to successors to the business of the Company are hereby made applicable hereunder and are incorporated herein by reference.

5. Securities Law Compliance. The Participant specifically acknowledges and agrees that any sales of shares of Common Stock shall be made in accordance with the requirements of the Securities Act of 1933, as amended. The Company currently has an effective registration statement on file with the Securities and Exchange Commission with respect to the Common Stock to be granted hereunder. The Company intends to maintain this registration statement but has no obligation to do so. If the registration statement ceases to be effective for any reason, the Participant will not be able to transfer or sell any of the shares of Common Stock issued to the Participant pursuant to this Agreement unless exemptions from registration or filings under applicable securities laws are available. Furthermore, despite registration, applicable securities laws may restrict the ability of the Participant to sell his or her Common Stock, including due to the Participant's affiliation with the Company. The Company shall not be obligated to either issue the Common Stock or permit the resale of any shares of Common Stock if such issuance or resale would violate any applicable securities law, rule or regulation.

6. Rights as a Stockholder. The Participant shall have no right as a stockholder, including voting and dividend rights, with respect to the RSUs subject to this Agreement.

7. Incorporation of the Plan. The Participant specifically understands and agrees that the RSUs and the shares of Common Stock to be issued under the Plan will be issued to the Participant pursuant to the Plan, a copy of which Plan the Participant acknowledges he or she has read and understands and by which Plan he or she agrees to be bound. The provisions of the Plan are incorporated herein by reference.

8. Tax Liability of the Participant and Payment of Taxes. The Participant acknowledges and agrees that any income or other taxes due from the Participant with respect to this Award or the shares of Common Stock to be issued pursuant to this Agreement or otherwise sold shall be the Participant's responsibility. Without limiting the foregoing, the Participant agrees that if under applicable law the Participant will owe taxes at each vesting date on the portion of the Award then vested the Company shall be entitled to immediate payment from the Participant of the amount of any tax or other amounts required to be withheld by the Company by applicable law or regulation. Any taxes or other amounts due shall be paid, at the option of the Administrator as follows:

(a) through reducing the number of shares of Common Stock entitled to be issued to the Participant on the applicable vesting date in an amount equal to the statutory minimum of the Participant's total tax and other withholding obligations due and payable by the Company. Fractional shares will not be retained to satisfy any portion of the Company's withholding obligation. Accordingly, the Participant agrees that in the event that the amount of withholding required would result in a fraction of a share being owed, that amount will be satisfied by withholding the fractional amount from the Participant's paycheck;

(b) requiring the Participant to deposit with the Company an amount of cash equal to the amount determined by the Company to be required to be withheld with respect to the statutory minimum amount of the Participant's total tax and other withholding obligations due and payable by the Company or otherwise withholding from the Participant's paycheck an amount equal to such amounts due and payable by the Company; or

(c) if the Company believes that the sale of shares can be made in compliance with applicable securities laws, authorizing, at a time when the Participant is not in possession of material nonpublic information, the sale by the Participant on the applicable vesting date of such number of shares of Common Stock as the Company instructs a registered broker to sell to satisfy the Company's withholding obligation, after deduction of the broker's commission, and the broker shall be required to remit to the Company the cash necessary in order for the Company to satisfy its withholding obligation. To the extent the proceeds of such sale exceed the Company's withholding obligation the Company agrees to pay such excess cash to the Participant as soon as practicable. In addition, if such sale is not sufficient to pay the Company's withholding obligation the Participant agrees to pay to the Company as soon as practicable, including through additional payroll withholding, the amount of any withholding obligation that is not satisfied by the sale of shares of Common Stock. The Participant agrees to hold the Company and the broker harmless from all costs, damages or expenses relating to any such sale. The Participant acknowledges that the Company and the broker are under no obligation to arrange for such sale at any particular price. In connection with such sale of shares of Common Stock, the Participant shall execute any such documents requested by the broker in order to effectuate the sale of shares of Common Stock and payment of the withholding obligation to the Company. Sales pursuant to this paragraph may be structured, to the extent practicable, with the intention to comply with Section 10b5-1(c)(1)(i)(B) under the Exchange Act.

The Company shall not deliver any shares of Common Stock to the Participant until it is satisfied that all required withholdings have been made.

9. Participant Acknowledgements and Authorizations.

The Participant acknowledges the following:

(a) The Company is not by the Plan or this Award obligated to continue the Participant as an employee, director or consultant of the Company or an Affiliate.

(b) The Plan is discretionary in nature and may be suspended or terminated by the Company at any time.

(c) The grant of this Award is considered a one-time benefit and does not create a contractual or other right to receive any other award under the Plan, benefits in lieu of awards or any other benefits in the future.

(d) The Plan is a voluntary program of the Company and future awards, if any, will be at the sole discretion of the Company, including, but not limited to, the timing of any grant, the amount of any award, vesting provisions and the purchase price, if any.

(e) The value of this Award is an extraordinary item of compensation outside of the scope of the Participant's employment or consulting contract, if any. As such the Award is not part of normal or expected compensation for purposes of calculating any severance, resignation, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments. The future value of the shares of Common Stock is unknown and cannot be predicted with certainty.

10. Notices. Any notices to the Company required or permitted by the terms of this Agreement or the Plan shall be given by recognized courier service, facsimile, registered or certified mail, return receipt requested, addressed as follows:

Albireo Pharma, Inc.
10 Post Office Square, Suite 502 South
Boston, MA 02109
Attention: General Counsel

or to such other address or addresses of which notice in the same manner has previously been given. Any such notice shall be deemed to have been given upon the earlier of receipt, one business day following delivery to a recognized courier service or three business days following mailing by registered or certified mail.

11. Assignment and Successors.

(a) This Agreement is personal to the Participant and without the prior written consent of the Company shall not be assignable by the Participant otherwise than by will or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable by the Participant's legal representatives.

12. BENEFIT OF AGREEMENT.

Subject to the provisions of the Plan and the other provisions hereof, this Agreement shall be for the benefit of and shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

13. Governing Law. This Agreement shall be construed and enforced in accordance with the law of the State of Delaware, without giving effect to the conflict of law principles thereof.

14. Severability. If any provision of this Agreement is held to be invalid or unenforceable by a court of competent jurisdiction, then such provision or provisions shall be modified to the extent necessary to make such provision valid and enforceable, and to the extent that this is impossible, then such provision shall be deemed to be excised from this Agreement, and the validity, legality and enforceability of the rest of this Agreement shall not be affected thereby.

15. Entire Agreement. This Agreement, together with the Plan, constitutes the entire agreement and understanding between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements and understandings relating to the subject matter hereof. No statement, representation, warranty, covenant or agreement not expressly set forth in this Agreement shall affect or be used to interpret, change or restrict the express terms and provisions of this Agreement provided, however, in any event, this Agreement shall be subject to and governed by the Plan.

16. Modifications and Amendments. The terms and provisions of this Agreement may be modified or amended as provided in the Plan.

17. Waivers and Consents. Except as provided in the Plan, the terms and provisions of this Agreement may be waived, or consent for the departure therefrom granted, only by written document executed by the party entitled to the benefits of such terms or provisions. No such waiver or consent shall be deemed to be or shall constitute a waiver or consent with respect to any other terms or provisions of

this Agreement, whether or not similar. Each such waiver or consent shall be effective only in the specific instance and for the purpose for which it was given, and shall not constitute a continuing waiver or consent.

18. Data Privacy. By entering into this Agreement, the Participant acknowledges that the processing of certain personal data by the Company and any Affiliate (and any agent of the Company or any Affiliate administering the Plan or providing Plan record keeping services) is necessary for the performance of contractual duties to the Participant under this Agreement in order to facilitate the issuance of the Award and the administration of the Plan. Any storage, transfer or processing of personal data shall be in accordance with applicable law and in accordance with any Company Privacy Notice made available to the Participant.

19. Section 409A. The Award evidenced by this Agreement is intended to be exempt from the nonqualified deferred compensation rules of Section 409A of the Code as a “short term deferral” (as that term is used in the final regulations and other guidance issued under Section 409A of the Code, including Treasury Regulation Section 1.409A-1(b)(4)(i)), and shall be construed accordingly.

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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: August 9, 2018

/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: August 9, 2018

/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 June 30, 2018 (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: August 9, 2018

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

Dated: August 9, 2018

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

