

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 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 September 30, 2021**

**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: 001-36485**



**ARDELYX, INC.**

(Exact Name of Registrant as Specified in Its Charter)

**Delaware**

(State or Other Jurisdiction of Incorporation or Organization)

**26-1303944**

(I.R.S. Employer Identification No)

**400 Fifth Avenue, Suite 210, Waltham, Massachusetts 02451**

(Address of Principal Executive Offices) (Zip Code)

**(510) 745-1700**

(Registrant's Telephone Number, Including Area Code)

Securities registered pursuant to Section 12(b) of the Act:

<b>Title of each class</b>	<b>Trading Symbol(s)</b>	<b>Name of each exchange on which registered</b>
Common Stock, par value \$0.0001	ARDX	The Nasdaq Global Market

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 every Interactive Data File required to be submitted 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 such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

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

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

The number of issued and outstanding shares of the registrant's Common Stock, \$0.0001 par value per share, as of November 9, 2021, was 112,743,408.

ARDELYX, INC.

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**PART I. FINANCIAL INFORMATION**

**ITEM 1. FINANCIAL STATEMENTS**

**ARDELYX, INC.**  
**CONDENSED BALANCE SHEETS**  
(in thousands, except share and per share amounts)

	September 30, 2021	December 31, 2020
	(Unaudited)	
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 75,288	\$ 91,032
Short-term investments	66,363	95,452
Accounts receivable	287	—
Prepaid expenses and other current assets	11,441	8,202
Total current assets	153,379	194,686
Property and equipment, net	2,651	1,936
Long-term investments	—	2,114
Right-of-use assets, net	13,580	2,274
Other assets	1,238	552
Total assets	<u>\$ 170,848</u>	<u>\$ 201,562</u>
<b>Liabilities and stockholders' equity</b>		
Current liabilities:		
Accounts payable	\$ 4,263	\$ 5,626
Accrued compensation and benefits	4,770	5,672
Current portion of operating lease liability	3,391	2,117
Loan payable, current portion	44,444	4,167
Deferred revenue	527	4,177
Accrued expenses and other current liabilities	11,373	6,657
Total current liabilities	68,768	28,416
Operating lease liability, net of current portion	10,669	413
Loan payable, net of current portion	7,032	46,621
Deferred revenue, non-current	2,947	—
Total liabilities	<u>89,416</u>	<u>75,450</u>
Commitments and contingencies (Note 12)		
Stockholders' equity:		
Preferred stock, \$0.0001 par value; 5,000,000 shares authorized; no shares issued and outstanding as of September 30, 2021 and December 31, 2020, respectively.	—	—
Common stock, \$0.0001 par value; 300,000,000 shares authorized; 106,771,584 and 93,599,975 shares issued and outstanding as of September 30, 2021 and December 31, 2020, respectively.	11	9
Additional paid-in capital	758,114	680,872
Accumulated deficit	(676,696)	(554,765)
Accumulated other comprehensive income (loss)	3	(4)
Total stockholders' equity	<u>81,432</u>	<u>126,112</u>
Total liabilities and stockholders' equity	<u>\$ 170,848</u>	<u>\$ 201,562</u>

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

**ARDELYX, INC.**  
**CONDENSED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS**  
(Unaudited)  
(in thousands, except share and per share amounts)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
<b>Revenues:</b>				
Collaborative development revenue	\$ 886	\$ 1,356	\$ 3,650	\$ 3,656
Product supply revenue	285	1,357	411	1,400
Licensing revenue	2	—	5,007	706
<b>Total revenues</b>	<b>1,173</b>	<b>2,713</b>	<b>9,068</b>	<b>5,762</b>
<b>Operating expenses:</b>				
Cost of revenue	—	—	1,000	141
Research and development	23,695	12,240	70,172	46,948
General and administrative	19,714	7,634	56,969	21,810
<b>Total operating expenses</b>	<b>43,409</b>	<b>19,874</b>	<b>128,141</b>	<b>68,899</b>
<b>Loss from operations</b>	<b>(42,236)</b>	<b>(17,161)</b>	<b>(119,073)</b>	<b>(63,137)</b>
Interest expense	(1,216)	(1,202)	(3,518)	(3,785)
Other (expense) income, net	(134)	255	664	1,485
<b>Loss before provision for income taxes</b>	<b>(43,586)</b>	<b>(18,108)</b>	<b>(121,927)</b>	<b>(65,437)</b>
Provision for income taxes	1	—	4	—
<b>Net loss</b>	<b>\$ (43,587)</b>	<b>\$ (18,108)</b>	<b>\$ (121,931)</b>	<b>\$ (65,437)</b>
<b>Net loss per common share - basic and diluted</b>	<b>\$ (0.42)</b>	<b>\$ (0.20)</b>	<b>\$ (1.21)</b>	<b>\$ (0.73)</b>
Shares used in computing net loss per share - basic and diluted	104,144,606	89,365,798	100,480,156	89,109,772
<b>Comprehensive loss:</b>				
Net loss	\$ (43,587)	\$ (18,108)	\$ (121,931)	\$ (65,437)
Unrealized (losses) gains on available-for-sale securities	(1)	(227)	7	70
<b>Comprehensive loss</b>	<b>\$ (43,588)</b>	<b>\$ (18,335)</b>	<b>\$ (121,924)</b>	<b>\$ (65,367)</b>

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

**ARDELYX, INC.**  
**CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY**  
**For the Three and Nine Months ended September 30, 2021**  
**(Unaudited)**  
**(in thousands, except shares)**

	Three Months Ended September 30, 2021					
	Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity
	Shares	Amount				
<b>Balance as of June 30, 2021</b>	102,967,017	\$ 10	\$ 750,664	\$ (633,109)	\$ 4	\$ 117,569
Issuance of common stock under employee stock purchase plan	284,456	—	341	—	—	341
Issuance of common stock for services	25,989	—	190	—	—	190
Issuance of common stock upon exercise of options	126,004	—	21	—	—	21
Issuance of common stock upon vesting of restricted stock units	34,410	—	—	—	—	—
Taxes paid related to net share settlement of equity awards	—	—	(106)	—	—	(106)
Issuance of common stock in at-the-market offering	3,333,708	1	4,742	—	—	4,743
Stock-based compensation	—	—	2,262	—	—	2,262
Unrealized losses on available-for-sale securities	—	—	—	—	(1)	(1)
Net loss	—	—	—	(43,587)	—	(43,587)
<b>Balance as of September 30, 2021</b>	<b>106,771,584</b>	<b>\$ 11</b>	<b>\$ 758,114</b>	<b>\$ (676,696)</b>	<b>\$ 3</b>	<b>\$ 81,432</b>
	Nine Months Ended September 30, 2021					
	Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity
	Shares	Amount				
<b>Balance as of December 31, 2020</b>	93,599,975	\$ 9	\$ 680,872	\$ (554,765)	\$ (4)	\$ 126,112
Issuance of common stock under employee stock purchase plan	386,664	—	819	—	—	819
Issuance of common stock for services	25,989	—	190	—	—	190
Issuance of common stock upon exercise of options	331,310	—	584	—	—	584
Issuance of common stock upon vesting of restricted stock units	114,194	—	—	—	—	—
Taxes paid for net share settlement of equity awards	—	—	(106)	—	—	(106)
Issuance of common stock in at-the-market offering	12,313,452	2	67,187	—	—	67,189
Stock-based compensation	—	—	8,568	—	—	8,568
Unrealized gains on available-for-sale securities	—	—	—	—	7	7
Net loss	—	—	—	(121,931)	—	(121,931)
<b>Balance as of September 30, 2021</b>	<b>106,771,584</b>	<b>\$ 11</b>	<b>\$ 758,114</b>	<b>\$ (676,696)</b>	<b>\$ 3</b>	<b>\$ 81,432</b>

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

**ARDELYX, INC.**  
**CONDENSED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY**  
**For the Three and Nine Months ended September 30, 2020**  
**(Unaudited)**  
**(in thousands, except shares)**

	Three Months Ended September 30, 2020					
	Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity
	Shares	Amount				
<b>Balance as of June 30, 2020</b>	89,140,563	\$ 9	\$ 653,805	\$ (507,781)	\$ 317	\$ 146,350
Issuance of common stock under employee stock purchase plan	94,127	—	459	—	—	459
Issuance of common stock upon exercise of options	142,191	—	339	—	—	339
Issuance of common stock upon vesting of restricted stock units	866,528	—	—	—	—	—
Stock-based compensation	—	—	2,527	—	—	2,527
Unrealized losses on available-for-sale securities	—	—	—	—	(227)	(227)
Net loss	—	—	—	(18,108)	—	(18,108)
<b>Balance as of September 30, 2020</b>	<u>90,243,409</u>	<u>\$ 9</u>	<u>\$ 657,130</u>	<u>\$ (525,889)</u>	<u>\$ 90</u>	<u>\$ 131,340</u>
	Nine Months Ended September 30, 2020					
	Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity
	Shares	Amount				
<b>Balance as of December 31, 2019</b>	88,817,741	\$ 9	\$ 647,078	\$ (460,452)	\$ 20	\$ 186,655
Issuance of common stock under employee stock purchase plan	169,931	—	834	—	—	834
Issuance of common stock for services	42,403	—	310	—	—	310
Issuance of common stock upon exercise of options	346,806	—	759	—	—	759
Issuance of common stock upon vesting of restricted stock units	866,528	—	—	—	—	—
Stock-based compensation	—	—	8,149	—	—	8,149
Unrealized gains on available-for-sale securities	—	—	—	—	70	70
Net loss	—	—	—	(65,437)	—	(65,437)
<b>Balance as of September 30, 2020</b>	<u>90,243,409</u>	<u>\$ 9</u>	<u>\$ 657,130</u>	<u>\$ (525,889)</u>	<u>\$ 90</u>	<u>\$ 131,340</u>

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

**ARDELYX, INC.**  
**CONDENSED STATEMENTS OF CASH FLOWS**  
(Unaudited)  
(in thousands)

	Nine Months Ended September 30,	
	2021	2020
<b>Operating activities</b>		
Net loss	\$ (121,931)	\$ (65,437)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation expense	1,247	1,399
Amortization of deferred financing costs	477	416
Amortization of deferred compensation for services	192	235
Amortization of (discount) premium on investment securities	396	(241)
Non-cash lease expense	2,257	1,568
Stock-based compensation	8,568	8,149
Change in derivative liabilities	(696)	290
Non-cash interest associated with debt discount accretion	212	393
Changes in operating assets and liabilities:		
Accounts receivable	(287)	—
Prepaid expenses and other assets	(3,927)	(3,748)
Accounts payable	(1,363)	303
Accrued compensation and benefits	(902)	(731)
Operating lease liabilities	(2,033)	(1,914)
Accrued and other liabilities	5,411	(871)
Deferred revenue	(703)	(3,656)
Net cash used in operating activities	(113,082)	(63,845)
<b>Investing activities</b>		
Proceeds from maturities and redemptions of investments	103,550	79,402
Purchases of investments	(72,736)	(107,200)
Purchases of property and equipment	(1,962)	(74)
Net cash provided by (used in) investing activities	28,852	(27,872)
<b>Financing activities</b>		
Proceeds from issuance of common stock in at-the-market offering, net of issuance costs	67,189	—
Proceeds from issuance of common stock under equity incentive and stock purchase plans	1,403	1,593
Payments for taxes related to net share settlement of equity awards	(106)	—
Net cash provided by financing activities	68,486	1,593
<b>Net decrease in cash and cash equivalents</b>	(15,744)	(90,124)
<b>Cash and cash equivalents at beginning of period</b>	91,032	181,133
<b>Cash and cash equivalents at end of period</b>	\$ 75,288	\$ 91,009
<b>Supplementary disclosure of cash flow information:</b>		
Cash paid for interest	\$ 2,920	\$ 3,119
Cash paid for income taxes	\$ 4	\$ 1
<b>Supplementary disclosure of non-cash activities:</b>		
Right-of-use assets obtained in exchange for lease obligations	\$ 14,379	\$ —
Issuance of common stock for services	\$ 190	\$ 310

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

**ARDELYX, INC.**  
**NOTES TO CONDENSED FINANCIAL STATEMENTS**  
**(Unaudited)**

(amounts in thousands, except per share amounts and where otherwise noted)

**NOTE 1. ORGANIZATION AND BASIS OF PRESENTATION**

Ardelyx, Inc. (the “Company,” “we,” “us” or “our”) is a biopharmaceutical company focused on the discovery, development, and commercialization of innovative first-in-class medicines to improve treatment for people with kidney and cardiorenal diseases.

We operate in one business segment, which is the research, development and commercialization of biopharmaceutical products.

***Basis of Presentation***

These condensed financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) and pursuant to the requirements of the Securities and Exchange Commission (“SEC”) for interim reporting. As permitted under those rules and regulations, certain footnotes or other financial information that are normally required by U.S. GAAP have been condensed or omitted. These condensed financial statements have been prepared on the same basis as our most recent annual financial statements and, in the opinion of management, reflect all adjustments, which include only normal recurring adjustments necessary to present fairly our financial position, results of operations, changes in stockholders’ equity, and cash flows for the interim periods presented.

The accompanying condensed financial statements and related financial information should be read in conjunction with the audited financial statements and the related notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2020. The results for the three and nine months ended September 30, 2021 are not necessarily indicative of results to be expected for the entire year ending December 31, 2021, or for any other interim period or future year.

***Use of Estimates***

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and judgments that affect the amounts reported in the financial statements and accompanying notes thereto. On an ongoing basis, management evaluates its estimates, including those related to recognition of revenue, clinical trial accruals, contract manufacturing accruals, the fair value of assets and liabilities, income taxes and stock-based compensation. Management bases its estimates on historical experience and on various other market-specific and relevant assumptions that management believes to be reasonable under the circumstances. Actual results could materially differ from those estimates.

***Liquidity***

As of September 30, 2021, we had cash, cash equivalents and marketable securities of approximately \$141.7 million. We believe our current available cash, cash equivalents and marketable securities will be sufficient to fund our planned expenditures and meet our obligations for at least 12 months following the filing of this Report on Form 10-Q.

On July 28, 2021, we received a Complete Response Letter (“CRL”) from the U.S. Food and Drug Administration (“FDA”) regarding our New Drug Application (“NDA”) for the control of serum phosphorus in adult patients with chronic kidney disease (“CKD”) on dialysis in which the FDA noted additional requirements would need to be met in order to obtain approval for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis. On July 29, 2021 we entered into a Fourth Amendment to our Term Loan Agreement which extended the period of time that we are permitted to make interest-only payments on the Term Loan to December 1, 2021, provided, however, the amendment provided that if the FDA did not approve our NDA for tenapanor for the control of serum phosphorus in adult patients with CKD on or before October 25, 2021, then the interest-only period would expire and principal repayments would be required to begin on November 1, 2021. Further, on July 29, 2021, our Board of Directors approved, and on August 2, 2021, we implemented a restructuring plan to better align our workforce and anticipated commercial and development spend with our capital resources and the needs of our business following the receipt of the CRL.

On October 8, 2021, our Board of Directors approved, and on October 12, 2021 we began implementing, an additional restructuring plan to further reduce operating costs and better align our workforce with the needs of our business following the



subsequent conclusion of an End of Review Type A Meeting ("End of Review Meeting") with the FDA on October 1, 2021. The restructuring plan is expected to be completed in December 2021.

During November 2021, in compliance with the terms of our Loan Agreement as discussed in Note 5, we paid the first principal repayment on the Term Loan in the amount of \$16.7 million. For additional information see Note 13, Subsequent Events.

Failure to raise sufficient capital when needed or generate product revenue will further impact our ability to pursue our business strategies and could require us to further delay, scale back or discontinue one or more of our product development programs, commercialization efforts, or other aspects of our business plans.

### ***Summary of Significant Accounting Policies***

There have been no changes to the significant accounting policies disclosed in our most recent Annual Report on Form 10-K other than the following:

#### **Restructuring**

We recognize restructuring charges related to reorganization plans that have been committed to by management and when liabilities have been incurred. In connection with these activities, we record restructuring charges at fair value for, a) contractual employee termination benefits when obligations are associated to services already rendered, rights to such benefits have vested, and payment of benefits is probable and can be reasonably estimated, b) one-time employee termination benefits when management has committed to a plan of termination, the plan identifies the employees and their expected termination dates, the details of termination benefits are complete, it is unlikely changes to the plan will be made or the plan will be withdrawn and communication to such employees has occurred, and c) contract termination costs when a contract is terminated before the end of its term.

One-time employee termination benefits are recognized in their entirety when communication has occurred and future services are not required. If future services are required, the costs are recorded ratably over the remaining period of service. Contract termination costs to be incurred over the remaining contract term without economic benefit are recorded in their entirety when the contract is canceled.

The recognition of restructuring charges requires us to make certain judgments and estimates regarding the nature, timing and amount of costs associated with the planned reorganization plan. To the extent our actual results differ from our estimates and assumptions, we may be required to revise the estimates of future accrued restructuring liabilities, requiring the recognition of additional restructuring charges or the reduction of accrued restructuring liabilities already recognized. Such changes to previously estimated amounts may be material to the consolidated financial statements. Changes in the estimates of the restructuring charges are recorded in the period the change is determined.

At the end of each reporting period, we evaluate the remaining accrued restructuring balances to ensure that no excess accruals are retained, and the utilization of the provisions are for their intended purpose in accordance with developed restructuring plans.

#### ***Recent Accounting Pronouncements***

##### *New Accounting Pronouncements - Recently Adopted*

We have adopted no new accounting pronouncements other than those disclosed in our most recent Annual Report on Form 10-K.

##### *Recent Accounting Pronouncements Not Yet Adopted*

In June 2016, the FASB issued ASU No. 2016-13, *Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments*, an amendment which modifies the measurement and recognition of credit losses for most financial assets and certain other instruments. The amendment updates the guidance for measuring and recording credit losses on financial assets measured at amortized cost by replacing the "incurred loss" model with an "expected loss" model. Accordingly, these financial assets will be presented at the net amount expected to be collected. The amendment also requires that credit losses related to available-for-sale debt securities be recorded as an allowance through net income rather than reducing the carrying amount under the current, other-than-temporary-impairment model. For smaller reporting companies the

guidance is effective for fiscal years beginning after December 15, 2022, including interim periods within those fiscal years. On June 30, 2021, our public float exceeded \$700 million and therefore, on December 31, 2021, we will no longer qualify as a “smaller reporting company” and will instead be considered a large accelerated filer. We expect to adopt Topic 326 in the fourth quarter of 2021. We do not expect the adoption of ASU 2016-13 to have a material impact on our financial statements and related disclosures.

## NOTE 2. CASH, CASH EQUIVALENTS AND INVESTMENTS

Securities classified as cash, cash equivalents and investments as of September 30, 2021 and December 31, 2020 are summarized below (in thousands):

	<b>September 30, 2021</b>			
	<b>Amortized Cost</b>	<b>Gross Unrealized</b>		<b>Fair Value</b>
		<b>Gains</b>	<b>Losses</b>	
<b>Cash and cash equivalents:</b>				
Cash	\$ 5,712	\$ —	\$ —	\$ 5,712
Money market funds	68,326	—	—	68,326
Commercial paper	1,250	—	—	1,250
<b>Total cash and cash equivalents</b>	<b>75,288</b>	<b>—</b>	<b>—</b>	<b>75,288</b>
<b>Short-term investments</b>				
Commercial paper	\$ 49,919	\$ 3	\$ —	\$ 49,922
Corporate bonds	11,100	3	(2)	11,101
Asset-backed securities	5,341	—	(1)	5,340
<b>Total short-term investments</b>	<b>66,360</b>	<b>6</b>	<b>(3)</b>	<b>66,363</b>
<b>Total cash equivalents and investments</b>	<b>\$ 141,648</b>	<b>\$ 6</b>	<b>\$ (3)</b>	<b>\$ 141,651</b>
	<b>December 31, 2020</b>			
	<b>Amortized Cost</b>	<b>Gross Unrealized</b>		<b>Fair Value</b>
		<b>Gains</b>	<b>Losses</b>	
<b>Cash and cash equivalents:</b>				
Cash	\$ 781	\$ —	\$ —	\$ 781
Money market funds	88,151	—	—	88,151
Commercial paper	2,100	—	—	2,100
<b>Total cash and cash equivalents</b>	<b>91,032</b>	<b>—</b>	<b>—</b>	<b>91,032</b>
<b>Short-term investments</b>				
Commercial paper	\$ 60,631	\$ 2	\$ (4)	\$ 60,629
Corporate bonds	24,547	3	(6)	24,544
U.S. government-sponsored agency bonds	9,277	2	—	9,279
U.S. treasury notes	1,000	—	—	1,000
<b>Total short-term investments</b>	<b>95,455</b>	<b>7</b>	<b>(10)</b>	<b>95,452</b>
<b>Long-term investments:</b>				
Corporate bonds	\$ 2,115	—	\$ (1)	2,114
<b>Total cash equivalents and investments</b>	<b>\$ 188,602</b>	<b>\$ 7</b>	<b>\$ (11)</b>	<b>\$ 188,598</b>

We invest excess cash in marketable securities with high credit ratings. These securities consist primarily of money market funds, commercial paper, corporate bonds, asset-backed securities, and U.S. treasury and agency securities and are classified as “available-for-sale.”

All of the available-for-sale securities that we held as of September 30, 2021 had contractual maturities of less than one year. Our available-for-sale securities are subject to a periodic impairment review. We consider a debt security to be impaired when the fair value of that security is less than its carrying cost, in which case we would further evaluate the investment to determine whether the security is other-than-temporarily impaired. When we evaluate an investment for other-

than-temporary impairment, we review factors such as the length of time and extent to which fair value has been below cost basis, the financial condition or creditworthiness of the issuer and any changes thereto, intent to sell, and whether it is more likely than not we will be required to sell the investment before the recovery of its cost basis. If an investment is other-than-temporarily impaired, we write the investment down through the statement of operations to its fair value and establish that value as the new cost basis for the investment. Management has determined that none of our available-for-sale securities were other-than-temporarily impaired in any of the periods presented, and, as of September 30, 2021, no investment was in a continuous unrealized loss position for more than one year. As such, we believe that it is more likely than not that investments in a loss position will be held until maturity or a forecasted recovery of fair value.

**NOTE 3. FAIR VALUE MEASUREMENTS**

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs.

The three-level hierarchy for the inputs to valuation techniques is briefly summarized as follows:

- Level 1 – Valuations are based on quoted prices in active markets for identical assets or liabilities and readily accessible by us at the reporting date. Examples of assets and liabilities utilizing Level 1 inputs are certain money market funds, U.S. treasuries and trading securities with quoted prices on active markets.
- Level 2 – Valuations based on inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Examples of assets and liabilities utilizing Level 1 inputs are certain money market funds, U.S. treasuries and trading securities with quoted prices on active markets.
- Level 3 – Valuations based on unobservable inputs for which there is little or no market data, which require us to develop our own assumptions.

The following table sets forth the fair value of our financial assets and liabilities that are measured or disclosed on a recurring basis by level within the fair value hierarchy (in thousands):

	<b>September 30, 2021</b>			
	<b>Total Fair Value</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>
<b>Assets:</b>				
Money market funds	\$ 68,326	\$ 68,326	\$ —	\$ —
Commercial paper	51,172	—	51,172	—
Corporate bonds	11,101	—	11,101	—
Asset-backed securities	5,340	—	5,340	—
<b>Total</b>	<b>\$ 135,939</b>	<b>\$ 68,326</b>	<b>\$ 67,613</b>	<b>\$ —</b>
<b>Liabilities:</b>				
Derivative liability for Exit Fee	\$ 680	\$ —	\$ —	\$ 680
<b>Total</b>	<b>\$ 680</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 680</b>

	<b>December 31, 2020</b>			
	<b>Total Fair Value</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>
<b>Assets:</b>				
Money market funds	\$ 88,151	\$ 88,151	\$ —	\$ —
Commercial paper	62,729	—	62,729	—
Corporate bonds	26,658	—	26,658	—
U.S. government-sponsored agency bonds	9,279	—	9,279	—
U.S. treasury notes	1,000	—	1,000	—
<b>Total</b>	<b>\$ 187,817</b>	<b>\$ 88,151</b>	<b>\$ 99,666</b>	<b>\$ —</b>
<b>Liabilities:</b>				
Derivative liability for Exit Fee	\$ 1,376	\$ —	\$ —	\$ 1,376
<b>Total</b>	<b>\$ 1,376</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,376</b>

Where quoted prices are available in an active market, securities are classified as Level 1. We classify money market funds as Level 1. When quoted market prices are not available for the specific security, we estimate fair value by using benchmark yields, reported trades, broker/dealer quotes and issuer spreads. We classify U.S. government-sponsored agency bonds, U.S. treasury notes, corporate bonds, commercial paper, asset-backed securities and foreign currency derivative contracts as Level 2. In certain cases, where there is limited activity or less transparency around inputs to valuation, securities or derivative liabilities, such as the Exit Fee, as defined and discussed in Note 6, are classified as Level 3.

The carrying amounts reflected in the balance sheets for cash equivalents, short-term investments, accounts receivable, prepaid expenses and other current assets, accounts payable and accrued expenses approximate their fair values at both September 30, 2021 and December 31, 2020, due to their short-term nature.

#### **Fair Value of Debt**

The interest rate of our term loan facility approximates the rate at which we could obtain alternative financing. Therefore, the carrying amount of the term loan facility approximated its fair value at September 30, 2021 and December 31, 2020.

#### **NOTE 4. COLLABORATION AND LICENSING AGREEMENTS**

##### ***Kyowa Kirin Co., Ltd. (“KKC”)***

##### ***2019 KKC Agreement***

In November 2019, we entered into a research collaboration and option agreement with KKC (the “2019 KKC Agreement”) for research associated with identifying two preclinical compounds that are ready for designation as development compounds (“DCs”), with one compound inhibiting the first undisclosed target (“Program 1”), and a second inhibiting the second undisclosed target (“Program 2”). Pursuant to the 2019 KKC Agreement, upon completion of the research and designation by the research steering committee of one or more DCs, KKC has the right to execute one or more separate collaborative agreements relating to the development and commercialization of one or both DCs in certain specified territories.

Under the terms of the 2019 KKC Agreement, KKC paid us a non-refundable, non-creditable upfront fee of \$10.0 million in two installments as follows: the first installment of \$5.0 million within 30 days of November 11, 2019 (the “Effective Date”), and the second installment of \$5.0 million on the first anniversary of the Effective Date. The term of the 2019 KKC Agreement commenced on the Effective Date and ends on the earliest of: (i) 2 years following the Effective Date, (ii) the nomination of a program DC for both programs, (iii) the nomination of one program DC and the decision by the parties to cease research for the other program, or (iv) the decision by the parties to cease research for both programs.

During the three and nine months ended September 30, 2021, we recognized \$0.9 million and \$3.7 million, respectively, as collaborative development revenue under the 2019 KKC Agreement in the accompanying condensed statement of operations and comprehensive loss. During the three and nine months ended September 30, 2020, we recognized \$1.4 million and \$3.7 million, respectively, as collaborative development revenue under the 2019 KKC Agreement in the accompanying condensed statement of operations and comprehensive loss. The aggregate amount of the transaction price allocated to our

partially unsatisfied performance obligations as of September 30, 2021 and December 31, 2020 was \$0.5 million and \$4.2 million, respectively, which is presented in the accompanying condensed balance sheet as deferred revenue. As of September 30, 2021, we expect to recognize the remaining transaction price allocated to our partially unsatisfied performance obligations over the remaining research terms, which is currently expected to extend through the end of 2021. There were no significant changes in estimates associated with the 2019 KKC Agreement during the nine months ended September 30, 2021.

#### *2017 KKC Agreement*

In November 2017, we entered into an exclusive license agreement with KKC (the “2017 KKC Agreement”), for the development, commercialization, and distribution of tenapanor in Japan for cardiorenal indications. We granted KKC an exclusive license to develop and commercialize certain sodium hydrogen exchanger 3 (“NHE3”) inhibitors including tenapanor in Japan for the treatment of cardiorenal diseases and conditions, excluding cancer. We retained the rights to tenapanor outside of Japan, and also retained the rights to tenapanor in Japan for indications other than those stated above. Pursuant to the 2017 KKC Agreement, KKC is responsible for all costs and expenses incurred in the development and commercialization of tenapanor for all licensed indications in Japan. We are responsible for supplying the tenapanor drug substance for KKC’s use in development and commercialization throughout the term of the 2017 KKC Agreement, provided that KKC may exercise an option to manufacture the tenapanor drug substance under certain conditions.

We assessed these arrangements in accordance with Accounting Standards Update (“ASU”) No. 2014-09, *Revenue from Contracts with Customers (Topic 606) and related amendments (“ASC 606”)* and concluded that the contract counterparty, KKC, is a customer. Under the terms of the 2017 KKC Agreement, we received \$30.0 million in upfront license fees, which was recognized as revenue when the agreement was executed. Based on our assessment, management determined that the license and the manufacturing supply services were its material performance obligations at the inception of the 2017 KKC Agreement, and as such, each of the performance obligations is distinct.

In addition to the up-front license fee received of \$30.0 million, we may be entitled to receive up to \$55.0 million in total development milestones, of which \$10.0 million has been received and recognized as revenue as of September 30, 2021, and approximately ¥8.5 billion for commercialization milestones, or approximately \$76.1 million at the currency exchange rate on September 30, 2021, as well as reimbursement of costs plus a reasonable overhead for the supply of product and high-teen royalties on net sales throughout the term of the agreement. The variable consideration related to the remaining development milestone payments has not been included in the transaction price as these were fully constrained at September 30, 2021.

During the three and nine months ended September 30, 2021 we recognized zero and \$5.0 million, respectively, as licensing revenue upon the achievement of development milestones. During the three and nine months ended September 30, 2020, we recognized no licensing revenue upon the achievement of development milestones. The \$5.0 million development milestone recognized during the three months ended March 31, 2021 related to the initiation by KKC of phase 3 clinical studies in Japan to evaluate tenapanor for hyperphosphatemia. During the three and nine months ended September 30, 2021, we recognized \$0.3 million and \$0.4 million as product supply revenue related to the manufacturing supply of tenapanor and other materials to KKC pursuant to the 2017 KKC Agreement. During the three and nine months ended September 30, 2020, we recognized \$1.4 million and \$1.4 million as product supply revenue.

During the three months ended March 31, 2021, we received a \$2.9 million prepayment from KKC for the manufacturing of tenapanor drug substance. The prepayment is reflected within prepaid and other current assets and deferred revenue, non-current on our condensed balance sheet as of September 30, 2021.

#### ***Shanghai Fosun Pharmaceutical Industrial Development Co. Ltd. (“Fosun Pharma”)***

In December 2017, we entered into an exclusive license agreement with Fosun Pharma (the “Fosun Agreement”), for the development, commercialization and distribution of tenapanor in China for both hyperphosphatemia and IBS-C. We assessed these arrangements in accordance with ASC 606 and concluded that the contract counterparty, Fosun Pharma, is a customer. Under the terms of the Fosun Agreement, we received \$12.0 million in upfront license fees which was recognized as revenue when the agreement was executed. Based on management’s assessment, we determined that the license and the manufacturing supply services represented the material performance obligations at the inception of the agreement, and as such, each of the performance obligations is distinct.

We may be entitled to additional development and commercialization milestones of up to \$110.0 million, as well as reimbursement of cost plus a reasonable overhead for the supply of product and tiered royalties on net sales ranging from the mid-teens to 20%. The variable consideration related to the remaining development milestone payments has not been included in the transaction price as these were fully constrained at September 30, 2021.

We have recorded no revenue during the three and nine months ended September 30, 2021 related to the Fosun Agreement.

#### ***Knight Therapeutics, Inc. (“Knight”)***

In March 2018, we entered into an exclusive license agreement with Knight (the “Knight Agreement”) for the development, commercialization and distribution of tenapanor in Canada for hyperphosphatemia and IBS-C. We assessed this arrangement in accordance with ASC 606 and concluded that the contract counterparty, Knight, is a customer. Based on management’s assessment, we determined that the license and the manufacturing supply services represented the material performance obligations at the inception of the agreement, and as such, each of the performance obligations is distinct. Under the terms of the agreement, we received a \$2.3 million nonrefundable, one-time upfront payment in March 2018 and are eligible to receive additional development and commercialization milestone payments worth up to \$17.5 million. We are also eligible to receive royalties throughout the term of the agreement, and a transfer price for manufacturing services. The variable consideration related to the remaining development milestone payments has not been included in the transaction price as they were fully constrained at September 30, 2021.

#### ***AstraZeneca AB (“AstraZeneca”)***

In June 2015, we entered into a termination agreement with AstraZeneca (the “AstraZeneca Termination Agreement”) pursuant to which we have agreed to pay AstraZeneca (i) future royalties at a royalty rate of 10% of net sales of tenapanor or other NHE3 products by us or our licensees, and (ii) 20% of non-royalty revenue received from a new collaboration partner should we elect to license, or otherwise provide rights to develop and commercialize tenapanor or another NHE3 inhibitor, up to a maximum of \$75.0 million in aggregate for (i) and (ii). As of September 30, 2021, to date in aggregate, we have recognized \$11.6 million of the \$75.0 million, which has been recorded as cost of revenue, and have paid AstraZeneca \$11.6 million. For the three and nine months ended September 30, 2021 we recognized and recorded as cost of revenue zero and \$1.0 million related to the AstraZeneca Termination Agreement. For the three and nine months ended September 30, 2020 we recognized zero and \$0.1 million, respectively, as cost of revenue related to the AstraZeneca Termination Agreement.

#### ***Deferred Revenue***

The following tables present changes in our current and non-current deferred revenue balances during the reporting period. The current deferred revenue balance is attributable entirely to the 2019 KKC Agreement and the non-current deferred revenue balance is attributable entirely to the 2017 KKC Agreement (in thousands):

	<b>Deferred revenue - current</b>
Balance at December 31, 2020	\$ 4,177
Decreases due to revenue recognized in the period for which cash has been received	(3,650)
Balance at September 30, 2021	<u>\$ 527</u>

  

	<b>Deferred revenue - non- current</b>
Balance at December 31, 2020	\$ —
Increases to amounts invoiced for which cash has been received	2,947
Balance at September 30, 2021	<u>\$ 2,947</u>

#### **NOTE 5. BORROWING**

##### ***Solar Capital and Western Alliance Bank Loan Agreement***

On May 16, 2018, we entered into a loan and security agreement (the “Loan Agreement”), with Solar Capital Ltd. and Western Alliance Bank (collectively the “Lenders”). The Loan Agreement provides for a \$50.0 million term loan facility with a maturity date of November 1, 2022 (the “Term Loan”).

On October 9, 2020, we and the Lenders entered into an amendment to the Loan Agreement (“the 2020 Amendment”) to extend the date through which we are permitted to make interest-only payments on the Term Loan by twelve months to December 1, 2021. The 2020 amendment also required that if either the FDA does not approve our NDA for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis on or before May 31, 2021 or the FDA issues a CRL with

respect to our NDA Number 213931, then we are to begin principal payments on the earlier of June 1, 2021 or the first day of the month immediately following the date that the FDA issues us a CRL. On April 29, 2021, the FDA extended the Prescription Drug User Fee Act ("PDUFA") date for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis by three months to July 29, 2021, making it unlikely that the FDA would approve our NDA for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis on or before May 31, 2021.

In May and July 2021, we and the Lenders entered into additional amendments to the Loan Agreement ("the 2021 Amendments") which together extended the period of time that we are permitted to make interest-only payments on the Term Loan to December 1, 2021; provided that if we have not received FDA approval for our NDA for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis on or before October 25, 2021, the interest-only period will expire and principal repayments shall be required to begin on November 1, 2021. If principal repayments are required to begin prior to December 1, 2021 under the 2021 Amendments, then the first such repayment shall include all payments that would have been due if monthly principal repayment had begun on June 1, 2021. As of September 30, 2021, we have classified our loan payable, current to include all principal payments that would have been due beginning on June 1, 2021. During November 2021, in compliance with the terms of our Loan Agreement, we paid the first principal repayment on the Term Loan in the amount of \$16.7 million. For additional information see Note 13, Subsequent Events.

We paid a closing fee of 1% of the Term Loan, or \$0.5 million, upon the closing of the Term Loan, \$0.1 million upon closing of the 2020 Amendment and \$0.1 million upon closing of the 2021 Amendments. Under the Term Loan, we are also obligated to pay a final fee equal to 4.95% of the Term Loan upon the earliest to occur of the maturity date, the acceleration of the Term Loan, the prepayment or repayment of the Term Loan or the termination of the Loan Agreement. We may voluntarily prepay the outstanding Term Loan, subject to a prepayment premium of (i) 3% of the principal amount of the Term Loan if prepaid prior to or on the first anniversary of the Closing Date, (ii) 2% of the principal amount of the Term Loan if prepaid after the first anniversary of the Closing Date through and including the second anniversary of the Closing Date, or (iii) 1% of the principal amount of the Term Loan if prepaid after the second anniversary of the Closing Date and prior to the maturity date. The Term Loan is secured by substantially all our assets, except for our intellectual property and certain other customary exclusions. Additionally, in connection with the Term Loan, we entered into the Exit Fee Agreement, as discussed in Note 6.

The Loan Agreement also contains customary events of default that entitle the Lenders to cause us indebtedness under the Loan Agreement to become immediately due and payable, and to exercise remedies against us and the collateral securing the Term Loan, including our cash. Upon the occurrence and for the duration of an event of default, an additional default interest rate equal to 4% per annum will apply to all amounts owed under the Loan Agreement. As of September 30, 2021 and as of the date of filing this Quarterly Report on Form 10-Q, to our knowledge, there were no facts or circumstances in existence that would give rise to an event of default.

As of September 30, 2021, our future payment obligations related to the Term Loan, excluding interest payments and the Exit Fee, are as follows (in thousands):

Total repayment obligations	\$	52,475
Less: Unamortized discount and debt issuance costs		(307)
Less: Unaccreted value of final fee		(692)
Loan payable		51,476
Less: Loan payable, current portion		(44,444)
Loan payable, net of current portion	\$	7,032

## NOTE 6. DERIVATIVE LIABILITY

### *Exit Fee*

In May 2018, in connection with entering into the Loan Agreement, as defined and discussed in Note 5, we entered into an agreement pursuant to which we agreed to pay \$1.5 million in cash (the "Exit Fee") upon any change of control transaction in respect of the Company or if we obtain both (i) FDA approval of tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis and (ii) FDA approval of tenapanor for the treatment of patients with irritable bowel syndrome with constipation ("IBS-C"), which was obtained on September 12, 2019 when the FDA approved IBSRELA® (tenapanor), a 50 milligram, twice daily oral pill for the treatment of IBS-C in adults (the "Exit Fee Agreement"). Notwithstanding the prepayment or termination of the Term Loan, as defined and discussed in Note 5, our obligation to pay the Exit Fee will expire on May 16, 2028. We concluded that the Exit Fee is a freestanding derivative which should be accounted for at fair value on a

recurring basis. The estimated fair value of the Exit Fee is recorded as a derivative liability and included in accrued expenses and other current liabilities on the accompanying condensed balance sheets.

The fair value of the derivative liability was determined using a discounted cash flow analysis and is classified as a Level 3 measurement within the fair value hierarchy since our valuation utilized significant unobservable inputs. Specifically, the key assumptions included in the calculation of the estimated fair value of the derivative liability include: (i) our estimates of both the probability and timing of a potential \$1.5 million payment to Solar Capital Ltd. and Western Alliance Bank as a result of the FDA approvals and (ii) a discount rate which was derived from our estimated cost of debt, adjusted with current LIBOR (or a comparable successor rate if LIBOR no longer exists). Generally, increases or decreases in the probability of occurrence would result in a directionally similar impact in the fair value measurement of the derivative liability and it is estimated that a 10% increase (decrease), not to exceed 100%, in the probability of occurrence would result in a fair value fluctuation of no more than \$0.1 million.

Changes in the fair value of recurring measurements included in Level 3 of the fair value hierarchy are presented as other income, net in our statements of operations and were as follows for the nine months ended September 30, 2021 and 2020 (in thousands):

	Nine Months Ended September 30,	
	2021	2020
Fair value of Exit Fee derivative liability at January 1	\$ 1,376	\$ 969
Change in estimated fair value of Exit Fee derivative liability	(696)	290
Fair value of Exit Fee derivative liability at September 30	\$ 680	\$ 1,259

During the nine months ended September 30, 2021 we reduced the value of the derivative liability due the receipt of the CRL from the FDA regarding our NDA for the control of serum phosphorus in adult patients with CKD on dialysis.

#### NOTE 7. LEASES

All of our leases are operating leases and each contain customary rent escalation clauses. Certain of the leases have both lease and non-lease components. We have elected to account for each separate lease component and the non-lease components associated with that lease component as a single lease component for all classes of underlying assets.

During May 2021, we entered into an amendment to the lease for our Fremont, California facility that extended the term of the lease to March 2025. The office space consists of 72,500 square feet with the lease terminating in September 2025. We increased the right-of-use asset and lease liability by \$11.9 million for the Fremont lease upon commencement of the amendment.

During April 2021 and May 2021, we recorded right-of-use operating lease assets for a new facility in Waltham, Massachusetts under a lease agreement entered into during December 2020 with lease commencement dates during April and May 2021. The office space consists of 12,864 square feet with the lease terminating in June 2026. We have an option to extend the lease term for one additional five year period. This option to extend the lease term has not been included in the calculation since currently the exercise of the option is uncertain and therefore deemed not probable. We recorded a \$1.6 million right-of-use asset and lease liability for the Waltham lease upon commencement of the lease.



The following table provides additional details of our facility leases presented in the condensed balance sheet as of September 30, 2021 (dollars in thousands):

<b>Facilities</b>	
Right-of-use assets	\$ 13,580
Current portion of lease liabilities	3,391
Operating lease liability, net of current portion	10,669
Total	<u>\$ 14,060</u>
Weighted-average remaining life (years)	3.0
Weighted-average discount rate	6.86%

Lease costs, which are included in operating expenses in our statements of operations, were as follows (in thousands):

	<b>Three Months Ended September 30,</b>		<b>Nine Months Ended September 30,</b>	
	<b>2021</b>	<b>2020</b>	<b>2021</b>	<b>2020</b>
Operating lease expense	\$ 1,096	\$ 648	\$ 2,606	\$ 1,944
Cash paid for operating leases	\$ 829	\$ 767	\$ 2,383	\$ 2,286

The following table summarizes our undiscounted cash payment obligations for our operating lease liabilities as of September 30, 2021 (in thousands):

Remainder of 2021	\$ 1,056
2022	4,292
2023	4,440
2024	4,589
2025	1,321
Thereafter	252
Total undiscounted operating lease payments	<u>15,950</u>
Imputed interest expenses	(1,890)
Total operating lease liabilities	14,060
Less: Current portion of operating lease liability	(3,391)
Operating lease liability, net of current portion	<u>\$ 10,669</u>

## NOTE 8. STOCKHOLDERS' EQUITY

### *At the Market Offerings Agreement*

In July 2020, we filed a Form S-3 registration statement, which became effective in August 2020 ("Registration Statement"), containing (i) a base prospectus for the offering, issuance and sale by us of up to a maximum aggregate offering price of \$250.0 million of our common stock, preferred stock, debt securities, warrants and/or units, from time to time in one or more offerings; and (ii) a prospectus supplement for the offering, issuance and sale by us of up to a maximum aggregate offering price of \$100.0 million of our common stock that may be issued and sold, from time to time, under a sales agreement with Jefferies LLC ("Jefferies"), deemed to be "at the market offerings" (the "2020 Open Market Sales Agreement"). Pursuant to the 2020 Open Market Sales Agreement, Jefferies, as our sales agent, received a commission of up to 3.0% of the gross sales price for shares of common stock sold under the 2020 Open Market Sales Agreement. During the nine months ended September 30, 2021 we sold 12.3 million shares of our common stock for aggregate gross proceeds of \$68.7 million at a weighted average price of \$5.58 per share under the 2020 Open Market Sales Agreement. We sold 8.2 million shares of our common stock between the dates of November 13, 2020 through February 19, 2021, 4.0 million shares between the dates of May 11, 2021 through June 18, 2021 and 3.3 million shares between the dates of August 24, 2021 and September 10, 2021 for a

cumulative total of 15.6 million shares and gross proceeds of \$90.3 million at a weighted average sales price of approximately \$5.80 per share during the life of the 2020 Open Market Sales Agreement.

In August 2021, we filed an additional prospectus supplement under the Registration Statement for the offering, issuance and sale by us of up to a maximum aggregate offering price of \$150.0 million of our common stock that may be issued and sold, from time to time, under an additional sales agreement we entered into with Jefferies (the "2021 Open Market Sales Agreement"), pursuant to which we may, from time to time, sell up to \$150.0 million in shares of our common stock through Jefferies. We are not required to sell shares under the 2021 Open Market Sales Agreement. Pursuant to the 2021 Open Market Sales Agreement, Jefferies, as our sales agent, receives a commission of up to 3.0% of the gross sales price for shares of common stock sold under the 2021 Open Market Sales Agreement. As of September 30, 2021 we had sold no shares of our common stock under the 2021 Open Market Sales Agreement.

## NOTE 9. EQUITY INCENTIVE PLANS

### Stock-Based Compensation

Stock-based compensation expense recognized for stock options, restricted stock units ("RSUs"), performance-based restricted stock units ("PRSUs") and our employee stock purchase program (the "ESPP") are recorded as operating expenses in our condensed statements of operations and comprehensive loss, as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Research and development	\$ 730	\$ 963	\$ 2,909	\$ 3,165
General and administrative	1,532	1,564	5,659	4,984
Total	\$ 2,262	\$ 2,527	\$ 8,568	\$ 8,149

As of September 30, 2021, our total unrecognized stock-based compensation expense, net of estimated forfeitures, and average remaining vesting period, included the following (dollars in thousands):

	Unrecognized Compensation Expense	Average Remaining Vesting Period (Years)
Stock options	\$ 19,546	2.6
RSUs	\$ 4,839	3.3
ESPP	\$ 201	0.4

### Stock Options

A summary of our stock option activity and related information for the nine months ended September 30, 2021 is as follows (in thousands, except dollar amounts):

	Number of Shares	Weighted Average Exercise Price
Outstanding balance at December 31, 2020	9,790	\$ 6.7
Granted	3,410	\$ 6.6
Exercised	(331)	\$ 1.9
Forfeited	(1,481)	\$ 6.0
Outstanding balance at September 30, 2021	11,387	\$ 6.9
Exercisable at September 30, 2021	6,434	\$ 7.2

**Restricted Stock Units**

A summary of our RSUs activity and related information for the nine months ended September 30, 2021 is as follows (in thousands, except dollar amounts):

	Number of RSUs	Weighted Average Value at Grant
Outstanding balance at December 31, 2020	159	\$ 5.64
Granted	1,124	\$ 6.62
Vested	(140)	\$ 6.57
Forfeited	(322)	\$ 6.68
Unvested at September 30, 2021	820	\$ 6.42

We issued no PRSUs during the nine months ended September 30, 2021 and we have no PRSUs outstanding as of September 30, 2021.

**Employee Stock Purchase Plan**

In August 2021, we sold approximately 0.5 million shares of our common stock under the ESPP. The shares were purchased by employees at a purchase price of \$1.21 per share resulting in proceeds to us of approximately \$0.6 million.

**Issuance of Common Stock for Services**

Under Our Amended and Restated Non-Employee Director Compensation Program, members of our board of directors may elect to receive shares of our stock in lieu of their cash fees. During the nine months ended September 30, 2021, we issued approximately 25,989 shares of our common stock to members of the board of directors in accordance with the program.

**NOTE 10. RESTRUCTURING**

On July 29, 2021, our Board of Directors approved, and on August 2, 2021, we began implementing a restructuring plan to better align our workforce and anticipated commercial and development spend with our capital resources and the needs of our business following the receipt of the CRL. Under the restructuring plan, we reduced our workforce by 83 employees (approximately 33%). Impacted employees received cash payments equal to their base pay for a notice period of sixty (60) days and Company funded COBRA premiums through such notice period. In addition, impacted employees were eligible to receive severance benefits and additional Company funded COBRA premiums, contingent upon an impacted employee's execution (and non-revocation) of a separation agreement, which includes a general release of claims against us. In connection with the restructuring, we have incurred restructuring charges of \$3.6 million, which were recorded during the quarter ended September 30, 2021, related to one-time termination notice and severance payments and other employee-related costs. Of this charge, \$1.2 million was recorded in research and development expenses, and \$2.4 million was recorded in general and administrative expense in the accompanying condensed statements of operations and comprehensive loss. The cash payments related to the reduction in workforce were disbursed during the quarter ended September 30, 2021.

As discussed in Note 13, on October 8, 2021, our Board of Directors approved an additional restructuring plan subsequent to the conclusion of an End of Review Meeting with the FDA on October 1, 2021. The restructuring plan is expected to be completed in December 2021.

**NOTE 11. NET LOSS PER SHARE**

Basic net loss per share is calculated by dividing net loss by the weighted-average number of common shares outstanding during the period, less shares subject to repurchase, and excludes any dilutive effects of stock-based awards and warrants. Diluted net loss per common share is computed giving effect to all potential dilutive common shares, including common stock issuable upon exercise of stock options, and unvested restricted common stock and stock units. As we had net losses for the three and nine months ended September 30, 2021 and 2020, all potential common shares were determined to be anti-dilutive.

The following table sets forth the computation of net loss per common share (in thousands, except per share amounts):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
<b>Numerator:</b>				
Net loss	\$ (43,587)	\$ (18,108)	\$ (121,931)	\$ (65,437)
<b>Denominator:</b>				
Weighted average common shares outstanding - basic and diluted	104,145	89,366	100,480	89,110
Net loss per share - basic and diluted	\$ (0.42)	\$ (0.20)	\$ (1.21)	\$ (0.73)

For the three and nine months ended September 30, 2021, the total number of securities that could potentially dilute basic net loss per share in the future that were not included in the computation of diluted net loss per share because the effect would have been antidilutive was 13.2 million and 13.4 million, respectively.

For the three and nine months ended September 30, 2020, the total number of securities that could potentially dilute basic net loss per share in the future that were not included in the computation of diluted net loss per share because the effect would have been antidilutive was 9.6 million and 10.4 million, respectively.

**NOTE 12. CONTINGENCIES**

On July 30, 2021, a putative securities class action lawsuit was commenced in the U.S. District Court for the Northern District of California naming as defendants Ardelyx and two current officers. The complaint alleges that the defendants violated Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, and Rule 10b-5 thereunder, by making false and misleading statements and omissions of material fact related to tenapanor. The plaintiff seeks to represent all persons who purchased or otherwise acquired Ardelyx securities between August 6, 2020, and July 19, 2021. The plaintiff seeks damages and interest, and an award of costs, including attorneys' fees. We believe the plaintiff's claims are without merit and we have not recorded any accrual for a contingent liability associated with these legal proceedings.

From time to time we may be involved in claims arising in connection with our business. Based on information currently available, management believes that the amount, or range, of reasonably possible losses in connection with any pending actions against us would not be material to our financial condition or cash flows, and no contingent liabilities were accrued as of September 30, 2021 or 2020.

**NOTE 13. SUBSEQUENT EVENTS**

***Restructuring***

On October 8, 2021, our Board of Directors approved, and on October 12, 2021 we began implementing, a restructuring plan to reduce operating costs and better align our workforce with the needs of our business following the receipt of a CRL from the FDA on July 28, 2021 regarding our NDA for the control of serum phosphorus in CKD patients on dialysis, and the subsequent conclusion of an End of Review Meeting with the FDA on October 1, 2021. The restructuring plan actions are expected to be completed in December 2021.

Under the restructuring plan, we are reducing our workforce by approximately 100 employees (approximately 60%). Impacted employees received notice that their positions will be eliminated on December 15, 2021. The restructuring plan will result in the elimination of all positions in our research organization as well as the cessation of all research activities. At the time of departure from the Company, either on December 15, 2021, or earlier, impacted employees are eligible to receive severance benefits and Company funded COBRA premiums, contingent upon an impacted employee's execution (and non-revocation) of a separation agreement, which includes a general release of claims against the Company.

In connection with the restructuring, we estimate that we will incur aggregate restructuring charges of approximately \$4 million, which will be recorded primarily in the fourth quarter 2021, related to severance payments and other employee-related costs. We may also incur additional costs not currently contemplated due to events that may occur as a result of, or that are associated with, the reduction in workforce.

In addition, on October 8, 2021, the Board determined that it is in the best interests of the Company and its stockholder to put in place arrangements designed to provide that the Company will have the continued dedication and commitment of those employees, including executives, determined to be key to the restructuring and planned future operations of the Company, and

thus, not impacted by the reduction in force. The Board approved, and management has implemented a retention program consisting of cash payments and grants of RSUs to the Company's employees not impacted by the reduction in force. As part of the retention plan we have entered into retention agreements with the retained employees, including the following named executive officers: Mike Raab, our Chief Executive Officer, Justin Renz, our Chief Financial Officer and Susan Rodriguez, our Chief Commercial Officer. Under those retention arrangements, each of Messrs. Raab and Renz and Ms. Rodriguez have received an RSU grant for 300 thousand, 250 thousand and 150 thousand shares, respectively. The RSUs will vest in full on June 1, 2022. Additionally, the retention agreements provide Messrs. Raab and Renz and Ms. Rodriguez the opportunity to earn cash bonuses upon the achievement of certain milestones in the amounts of \$300 thousand, \$250 thousand and \$150 thousand, respectively.

### **Borrowing**

During November 2021, in compliance with the terms of our Loan Agreement as discussed in Note 5, we made the first principal repayment on the Term Loan in the amount of \$16.7 million.

### **At the Market Offerings Agreement**

We sold 6.0 million shares of our common stock pursuant to the 2020 Open Market Sales Agreement between the dates of October 21, 2021 and November 5, 2021 for gross proceeds of \$7.4 million at a weighted average sales price of approximately \$1.23 per share. We did not sell any additional shares of our common stock after November 5, 2021 and through the date of filing this report on Form 10-Q.

## **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 in conjunction with the condensed financial statements and notes thereto included elsewhere in this report and with the audited financial statements and related notes thereto included as part of our Annual Report on Form 10-K for the year ended December 31, 2020. This discussion and analysis and other parts of this report contain forward-looking statements that involve risk and uncertainties, such as statements of our plans, objectives, expectations and intentions. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in the section of this report entitled "Risk Factors." These forward-looking statements speak only as of the date hereof. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason. Unless the context requires otherwise, the terms "Ardelyx", "Company", "we", "us", and "our" refer to Ardelyx, Inc.*

### **Overview**

We are a biopharmaceutical company focused on the discovery, development, and commercialization of innovative first-in-class medicines to improve treatment for people with kidney and cardiorenal diseases. This includes patients with chronic kidney disease ("CKD") on dialysis suffering from elevated serum phosphorus, or hyperphosphatemia; and CKD patients and/or heart failure patients with elevated serum potassium, or hyperkalemia. Tenapanor has a unique mechanism of action and acts locally in the gut to inhibit the sodium hydrogen exchanger 3 ("NHE3"). This results in the tightening of the epithelial cell junctions, thereby significantly reducing paracellular uptake of phosphate, the primary pathway of phosphate absorption.

Since commencing operations in October 2007, substantially all our efforts have been dedicated to our research and development ("R&D") activities, including developing tenapanor and developing our proprietary drug discovery and design platform. We have not generated any revenues from product sales. As of September 30, 2021, we had an accumulated deficit of \$676.7 million.

We expect to continue to incur substantial operating losses for the foreseeable future as we seek to gain approval for our New Drug Application ("NDA") for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis; prepare for the potential commercialization of tenapanor for any approved indication, incur manufacturing and development cost for, tenapanor; and incur development costs for RDX013. To date, we have funded our operations from the sale and issuance of common stock and convertible preferred stock, funds from our collaboration partnerships, which includes license fees, milestones and product supply revenue, as well as funds from our Loan Agreement with Solar Capital Ltd. and Western Alliance Bank.

## **Our Product Pipeline**

### ***Tenapanor: A New Approach for The Control of Serum Phosphorus in Adult Patients with CKD on Dialysis***

Tenapanor is a first-in-class medicine being developed for the control of serum phosphorus in adult patients with CKD on dialysis. Tenapanor for the control of serum phosphorus has a unique mechanism of action and acts locally in the gut to inhibit the NHE3. This results in the tightening of the epithelial cell junctions, thereby significantly reducing paracellular uptake of phosphate, the primary pathway of phosphate absorption. Tenapanor is the first therapy for phosphate management that blocks phosphorus absorption at the primary pathway of uptake. It is not a phosphate binder. In June 2020, we submitted an NDA to the U.S. Food and Drug Administration (“FDA”) for tenapanor the control of serum phosphorus in adult patients with CKD on dialysis. The NDA is supported by three Phase 3 trials involving over 1,000 patients that evaluated the use of tenapanor for the control of serum phosphorus in CKD patients on dialysis, with two trials evaluating tenapanor as monotherapy and one trial evaluating tenapanor as part of a dual mechanism approach with phosphate binders. All three Phase 3 trials met the primary and all key secondary endpoints.

On July 28, 2021, we received a Complete Response Letter (“CRL”) from the FDA regarding our NDA for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis. According to the CRL, while the FDA agrees “that the submitted data provide substantial evidence that tenapanor is effective in reducing serum phosphorus in CKD patients on dialysis,” the FDA characterizes the magnitude of the treatment effect as “small and of unclear clinical significance.” Additionally, the FDA noted that for the application to be approved, we will need “to conduct an additional adequate and well-controlled trial demonstrating a clinically relevant treatment effect on serum phosphorus or an effect on the clinical outcome thought to be caused by hyperphosphatemia in CKD patients on dialysis.” There were no safety, clinical pharmacology/biopharmaceutics, chemistry, manufacturing, and controls or non-clinical issues identified in the CRL. We held an End-of-Review Type A meeting (“End of Review Meeting”) in October 2021, with the FDA’s Division of Cardiology and Nephrology (the “Division”). The End of Review Meeting did not provide a reasonable path forward for resubmission of our NDA. As a result, we currently expect to submit a Formal Dispute Resolution Request (“FDRR”) by the end of the fourth quarter 2021 in order raise our scientific disagreement above the Division level within FDA’s Center for Drug Evaluation and Research (“CDER”). There can be no assurances that the Formal Dispute Resolution (“FDR”) process will result in approval of our NDA, or in a clear path to resubmission of our NDA that is achievable in terms of clinical endpoints, time and cost.

### ***IBSRELA® (tenapanor) for Irritable Bowel Syndrome with Constipation (IBS-C)***

In addition to the development of tenapanor for hyperphosphatemia, we have developed tenapanor for the treatment of patients with IBS-C. IBSRELA (tenapanor) for IBS-C is a first-in-class novel therapy with a unique mechanism of action that acts locally in the gut to inhibit the NHE3. This reduces absorption of sodium from the small intestine and colon, resulting in an increase in water secretion into the intestinal lumen, which accelerates intestinal transit time and results in a softer stool consistency.

In September 2019, we received FDA approval of IBSRELA® (tenapanor) for the treatment of IBS-C in adults. IBS-C is a burdensome gastrointestinal (“GI”) disorder. It is characterized by significant abdominal pain, constipation, straining during bowel movements, bloating and/or gas.

### ***RDX013 Program: Small Molecule for Treating Hyperkalemia***

We are also advancing a small molecule potassium secretagogue program, RDX013, for the potential treatment of hyperkalemia. Hyperkalemia is a common problem in patients with heart and kidney disease, particularly in patients taking common blood pressure medications known as renin-angiotensin-aldosterone system (“RAAS”) inhibitors. Similar to what we have done with tenapanor in developing a non-binder approach for the treatment of elevated serum phosphate levels, RDX013 is designed to target the underlying biological mechanisms of potassium secretion to lower elevated potassium. While currently available therapies are all ion exchange agents, RDX013 is a first in class approach that exerts its effects by amplifying the underlying pathways of potassium secretion in the colon.

## **Collaboration Partners**

We have exclusive rights to tenapanor in the U.S. and we have established agreements with Kyowa Kirin Co., Ltd. (“KKC”) in Japan, Shanghai Fosun Pharmaceutical Industrial Development Co. Ltd. (“Fosun Pharma”) in China and Knight Therapeutics, Inc. (“Knight”) in Canada for the development and commercialization of tenapanor for certain indications in their respective territories.

Knight has exclusive rights for the development, commercialization and distribution of tenapanor in Canada for hyperphosphatemia and IBS-C. In March 2021, Knight announced the commercial availability of IBSRELA (tenapanor) in Canada, following its approval by Health Canada in April 2020. Under the terms of the agreement with Knight, we received a \$2.3 million nonrefundable, one-time upfront payment in March 2018 and are eligible to receive additional development and commercialization milestone payments worth up to \$17.5 million. We are also eligible to receive royalties throughout the term of the agreement, and a transfer price for manufacturing services.

KKC has exclusive rights for the development, commercialization and distribution of tenapanor in Japan for cardiorenal indications. In April 2021, we announced that KKC had commenced four phase 3 clinical trials in Japan evaluating tenapanor for hyperphosphatemia. The phase 3 clinical trials consist of a multi-center, randomized, double-blind, placebo-controlled, parallel-group comparative study; a phosphate binder-combination parallel-group comparative study; an open-label, single-arm study evaluating hyperphosphatemia patients on peritoneal dialysis; and a long-term study evaluating serum phosphorus in patients who switch from one or more phosphate binders to tenapanor. Under the terms of the agreement with KKC, we received a \$30.0 million upfront payment from KKC, and we may be entitled to receive up to \$55.0 million in total development milestones, of which \$10.0 million has been received and recognized as revenue as of September 30, 2021, and approximately ¥8.5 billion for commercialization milestones, or approximately \$76.1 million at the currency exchange rate on September 30, 2021, as well as high-teen royalties on net sales throughout the term of the agreement.

Fosun Pharma has exclusive rights for the development and commercialization for the development, commercialization and distribution of tenapanor in China for both hyperphosphatemia and IBS-C. Under the terms of the Fosun Agreement, we received \$12.0 million in upfront license, and we may be entitled to additional development and commercialization milestones of up to \$110.0 million, as well as reimbursement of cost plus a reasonable overhead for the supply of product and tiered royalties on net sales ranging from the mid-teens to 20%.

### **Corporate Restructurings**

Following the receipt of the CRL for our NDA for tenapanor for the control of serum phosphorus in CKD patients on dialysis, in August, we implemented a restructuring plan (the “August Restructuring”) to better align our workforce and anticipated commercial and development spend with our capital resources and the needs of our business following the receipt of the CRL. Under the August restructuring plan we reduced our workforce by 83 employees (approximately 33%).

Following the conclusion of an End of Review Type A meeting with the FDA, in October 2021, we began to implement an additional restructuring plan (the “October Restructuring”) to further reduce operating costs and better align our workforce with the needs of our business. Under the restructuring plan, we are reducing our workforce by approximately 100 of our remaining employees (approximately 60%). Our impacted employees received notice that their positions will be eliminated on December 15, 2021. The restructuring plan, which will result in the elimination of our research organization and most of our commercial sales and marketing organizations, is expected to be completed in December 2021.

### **Impact of COVID-19**

The global COVID-19 pandemic has impacted the operational decisions of companies worldwide. It also has created and may continue to create significant uncertainty in the global economy. We have undertaken measures to protect our employees, partners, collaborators, and vendors, some of which impact our normal operations. To date, we have been able to continue our operations with our workforce, most of whom are working remotely, and our pre-existing infrastructure that supports secure access to our internal systems. If, however, the COVID-19 pandemic has a substantial impact on the productivity of our employees, the results of our operations and overall financial performance may be adversely impacted. The extent of the impact from the COVID-19 pandemic on our business will depend largely on future developments that are highly uncertain and cannot be predicted. For a discussion of risks of COVID-19 relating to our business, see “Part II: Other Information-Item 1A.- Risk Factors- Risks Related to Our Business- *The ongoing COVID-19 pandemic, or any other outbreak of epidemic diseases, or the perception of their effects, could have a material adverse effect on our business, financial condition, results of operations or cash flows.*” As of the date of issuance of this financial report, we are not aware of any specific event or circumstance that would require updates to our estimates and judgments or revisions to the carrying value of our assets or liabilities. These estimates may change as new events occur and additional information is obtained.

## **Critical Accounting Policies and Significant Judgments and Estimates**

Our discussion and analysis of financial condition and results of operations is based on our condensed financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States.

Critical accounting policies are those that require significant judgment and/or estimates by management at the time that financial statements are prepared such that materially different results might have been reported if other assumptions had been made. These estimates form the basis for making judgments about the carrying values of assets and liabilities. We base our estimates and judgments on historical experience and on various other assumptions that we believe to be reasonable under the circumstances. Actual results could differ materially from these estimates.

The critical accounting policies that we believe impact significant judgments and estimates used in the preparation of our condensed financial statements presented in this report are described in Part II, Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operations*, in our Annual Report on Form 10-K filed with the SEC on March 8, 2021. There have been no significant changes to our critical accounting policies as disclosed in our most recently filed Annual Report on Form 10-K during the three and nine months ended September 30, 2021.

## **Recent Accounting Pronouncements**

A summary of recent accounting pronouncements that we have adopted or may expect to adopt is included in Note 1 – Organization and Basis of Presentation to our condensed financial statements (see Part I, Item 1 *Notes to Condensed Financial Statements*, of this Quarterly Report on Form 10-Q).

## **Financial Operations Overview**

### **Revenue**

Our revenue to date has been generated primarily through license, research and development collaborative agreements with various collaboration partners. We have not generated any revenue from commercial product sales. In the future, we may generate revenue from a combination of our own product sales and payments in connection with our current or future collaborative partnerships, including license fees, other upfront payments, milestone payments, royalties and payments for drug product and/or drug substance. We expect that any revenue we generate will fluctuate in future periods as a result of, among other factors: whether we are able to gain approval from the FDA for our NDA for tenapanor or the control of serum phosphorus in CKD patients on dialysis; whether and the extent to which we are successful in our efforts to commercialize tenapanor for any approved indication the timing and progress of goods and services provided pursuant to our current or future collaborative partnerships; our or our collaborators' achievement of clinical, regulatory or commercialization milestones, to the extent achieved; the timing and amount of any payments to us relating to the aforementioned milestones; and the extent to which any of our product candidates are approved and successfully commercialized by a collaboration partner. If our current collaboration partners or any future collaboration partners fail to obtain regulatory approval for tenapanor, our ability to generate future revenue from our product sales or from our collaborative arrangements, and our results of operations and financial position, would be materially and adversely affected. Our past revenue performance is not necessarily indicative of results to be expected in future periods.

### **Cost of Revenue**

Cost of revenue currently represents payments due to AstraZeneca, which under the terms of a termination agreement entered into in 2015 (the "AZ Termination Agreement") is entitled to (i) future royalties at a rate of 10% of net sales of tenapanor or other NHE3 products by us or our licensees, and (ii) 20% of non-royalty revenue received from our collaboration partners to which we may elect to provide rights to develop and commercialize tenapanor or certain other NHE3 inhibitors. We have agreed to pay AstraZeneca up to a maximum of \$75.0 million in the aggregate for (i) and (ii). We recognize these expenses as cost of revenue when we recognize the corresponding revenue that gives rise to payments due to AstraZeneca. To date, we have recognized an aggregate of \$11.6 million as cost of revenue under the AZ Termination Agreement.

### **Research and Development**

We recognize all research and development expenses as they are incurred to support the discovery, research, development and manufacturing of our product candidates. Research and development expenses include, but are not limited to, the following:



- external research and development expenses incurred under agreements with consultants, third-party contract research organizations ("CROs") and investigative sites where a substantial portion of our clinical studies are conducted, and with contract manufacturing organizations where our clinical supplies are produced;
- expenses associated with supplies and materials consumed in connection with our research operations;
- expenses associated with producing tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis prior to FDA approval;
- other costs associated with research, clinical development and regulatory activities; and
- employee-related expenses, which include salaries, bonuses, benefits, travel and stock-based compensation;
- facilities and other allocated expenses, which include direct and allocated expenses for rent and maintenance of facilities, depreciation and amortization expense, information technology expense and other supplies.

As a result of the October Restructuring, we currently anticipate that our research organization will be eliminated by the end of 2021. We expect that we will continue to make substantial investments in our development activities as we progress the development of RDX013 and further progress the development of tenapanor to the extent additional clinical studies, including pediatric studies, are necessary to support the commercialization of tenapanor for any approved indication. The process of conducting preclinical studies and clinical trials necessary to obtain regulatory approval is costly and time-consuming. The probability of success of each of our product candidates may be affected by numerous factors, including preclinical data, clinical data, the regulatory process, market acceptance, sufficient third-party coverage or reimbursement, our ability to access capital on acceptable terms, competition, manufacturing capability and commercial viability. We anticipate that we will make determinations as to which programs to pursue and how much funding to direct to each program on an ongoing basis in response to the scientific and clinical success of each product candidate, ongoing assessment as to each product candidate's commercial potential, and our ability to access capital on acceptable terms. If we are unable to access capital on a timely basis and on terms that are acceptable to us, we may be forced to restructure certain aspects of our business or identify and complete one or more strategic collaborations or other transactions in order to fund the commercialization of tenapanor for any approved indication and the development of RDX013 through the use of alternative structures.

#### ***General and Administrative***

General and administrative expenses consist primarily of salaries and related benefits, including stock-based compensation, for certain of our executives, our board members, and our finance, legal, business development, market development, commercial and support staff. Other general and administrative expenses include facility related costs and professional fees for legal, accounting and audit, investor relations, other consulting services and allocated facility-related costs not otherwise included in research and development expenses.

We anticipate that our general and administrative expenses will decrease in the immediate future primarily because of the impact of the October Restructuring on our sales and marketing pre-commercial activities and personnel costs. We anticipate that our general and administrative expenses will increase in the future based upon whether and the extent to which we scale our organization to support a launch and commercialization of tenapanor for any approved indication.

#### ***Interest Expense***

Interest expense represents the interest paid on our loan payable.

#### ***Other Income, net***

Other income, net consists of interest income earned on our cash and cash equivalents and available-for-sale investments, the periodic revaluation of the exit fee related to our loan and currency exchange gains and losses.

## RESULTS OF OPERATIONS

The results of operations are not necessarily indicative of the results to be expected for the year ending December 31, 2021, for any other interim period, or for any other future year.

### Comparison of the three and nine months ended September 30, 2021 and 2020

#### Revenue

Below is a summary of our total revenue (dollars in thousands):

	Three Months Ended September 30,		Change 2021 vs. 2020		Nine Months Ended September 30,		Change 2021 vs. 2020	
	2021	2020	\$	%	2021	2020	\$	%
Collaborative development revenue	\$ 886	\$ 1,356	\$ (470)	(34.7)%	\$ 3,650	\$ 3,656	\$ (6)	(0.2)%
Product supply revenue	285	1,357	(1,072)	(79.0)%	411	1,400	(989)	(70.6)%
Licensing revenue	2	—	2	(a)	5,007	706	4,301	609.2 %
Total revenues	<u>\$ 1,173</u>	<u>\$ 2,713</u>	<u>\$ (1,540)</u>	<u>(56.8)%</u>	<u>\$ 9,068</u>	<u>\$ 5,762</u>	<u>\$ 3,306</u>	<u>57.4 %</u>

(a) Percent change is not meaningful.

The decrease to total revenues during the three months ended September 30, 2021 as compared to the same period in 2020 is primarily attributable to manufacturing supply of tenapanor and other materials sold to KKC during the three months ended September 30, 2020 in connection with the license agreement entered into with KKC in November 2017 for its product development and clinical trials in Japan.

The increase to total revenues during the nine months ended September 30, 2021 as compared to the same period in 2020 is primarily attributable to a \$5.0 million development milestone which we earned during three months ended March 31, 2021 upon the initiation by KKC of phase 3 clinical studies in Japan to evaluate tenapanor for hyperphosphatemia. The increase was partially offset by lower product supply revenue during the nine months ended September 30, 2021.

#### Operating Expenses

Below is a summary of our operating expenses (dollars in thousands):

	Three Months Ended September 30,		Change 2021 vs. 2020		Nine Months Ended September 30,		Change 2021 vs. 2020	
	2021	2020	\$	%	2021	2020	\$	%
Cost of revenue	\$ —	\$ —	\$ —	(a)	\$ 1,000	\$ 141	\$ 859	609.2 %
Research and development	23,695	12,240	11,455	93.6 %	70,172	46,948	23,224	49.5 %
General and administrative	19,714	7,634	12,080	158.2 %	56,969	21,810	35,159	161.2 %
Total operating expenses	<u>\$ 43,409</u>	<u>\$ 19,874</u>	<u>\$ 23,535</u>	<u>118.4 %</u>	<u>\$ 128,141</u>	<u>\$ 68,899</u>	<u>\$ 59,242</u>	<u>86.0 %</u>

(a) Percent change is not meaningful.

#### Cost of revenue

We did not incur any cost of revenue under the AZ termination Agreement during the three months ended September 30, 2021.

The increase in cost of revenue for the nine months ended September 30, 2021 was for payment due to AstraZeneca under the AZ Termination Agreement related to the development milestone we earned upon the initiation by KKC of phase 3 clinical studies in Japan to evaluate tenapanor for hyperphosphatemia.

## Research and Development

Below is a summary of our research and development expenses (dollars in thousands):

	Three Months Ended September 30,		Change 2021 vs. 2020		Nine Months Ended September 30,		Change 2021 vs. 2020	
	2021	2020	\$	%	2021	2020	\$	%
	External R&D expenses	\$ 15,310	\$ 5,767	\$ 9,543	165.5 %	\$ 44,316	\$ 27,242	\$ 17,074
Employee-related expenses	6,702	5,101	1,601	31.4 %	20,434	15,223	5,211	34.2 %
Facilities, equipment and depreciation expenses	1,518	1,233	285	23.1 %	4,240	4,240	—	— %
Other	165	139	26	18.7 %	1,182	243	939	386.4 %
Total research and development expenses	\$ 23,695	\$ 12,240	\$ 11,455	93.6 %	\$ 70,172	\$ 46,948	\$ 23,224	49.5 %

The increase in our external R&D expenses for the three and nine months ended September 30, 2021 is primarily the result of tenapanor manufacturing costs as well as clinical study costs from the advancement of our OPTIMIZE study which were partially offset by lower costs for the PHREEDOM clinical study. The increase in our employee-related expenses for the three and nine months ended September 30, 2021 is related to compensation and benefits expenses for our research and development workforce. Employee-related expenses for the three and nine months ended September 30, 2021 include \$1.2 million severance payments and other employee-related costs as discussed in *Note 10 - Restructuring* to the financial statements included elsewhere in this Quarterly Report.

## General and Administrative

The increase in general and administrative expenses for the three and six months ended September 30, 2021 was primarily due to increased costs associated with building and staffing our commercial infrastructure and teams as we prepared for the U.S. launch of tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis. The increase consisted of headcount and related personnel costs and an increase in external spending for disease awareness initiatives, commercial infrastructure and strategy. Employee-related expenses for the three and nine months ended September 30, 2021 include \$2.4 million severance payments and other employee-related costs as discussed in *Note 10 - Restructuring* to the financial statements included elsewhere in this Quarterly Report.

## Other Income, net

Below is a summary of our other income, net (dollars in thousands):

	Three Months Ended September 30,		Change 2021 vs. 2020		Nine Months Ended September 30,		Change 2021 vs. 2020	
	2021	2020	\$	%	2021	2020	\$	%
	Interest expense	\$ (1,216)	\$ (1,202)	\$ (14)	1.2 %	\$ (3,518)	\$ (3,785)	\$ 267
Other (expense) income, net	(134)	255	(389)	(152.5)%	664	1,485	(821)	(55.3)%
Total other income, net	\$ (1,350)	\$ (947)	\$ (403)	42.6 %	\$ (2,854)	\$ (2,300)	\$ (554)	24.1 %

## Interest Expense

The decrease in interest expense for the nine months ended September 30, 2021 was primarily due to lower interest rates on our variable-rate term loan.

## Other Income, net

The changes in other income, net for the three and nine months ended September 30, 2021 were primarily due to lower income earned on our investments, which was largely offset by the revaluation of our derivative liability related to our term loan agreement following receipt of the FDA CRL on July 28, 2021.

### **Liquidity and Capital Resources**

Below is a summary of our cash, cash equivalents and investments (in thousands):

	<b>September 30, 2021</b>	<b>December 31, 2020</b>
Cash and cash equivalents	\$ 75,288	\$ 91,032
Investments - current	66,363	95,452
Investments - non-current	—	2,114
Total liquid funds	<u>\$ 141,651</u>	<u>\$ 188,598</u>

As of September 30, 2021, we had cash, cash equivalents and investments totaling \$141.7 million compared to \$188.6 million as of December 31, 2020.

In July 2020, we filed a Form S-3 registration statement, which became effective in August 2020, containing (i) a base prospectus for the offering, issuance and sale by us of up to a maximum aggregate offering price of \$250.0 million of our common stock, preferred stock, debt securities, warrants and/or units, from time to time in one or more offerings; and (ii) a prospectus supplement for the offering, issuance and sale by us of up to a maximum aggregate offering price of \$100.0 million of our common stock that may be issued and sold, from time to time, under a sales agreement with Jefferies LLC ("Jefferies"), deemed to be "at the market offerings" (the "2020 Open Market Sales Agreement"). Pursuant to the 2020 Open Market Sales Agreement, Jefferies, as our sales agent, received a commission of up to 3.0% of the gross sales price for shares of common stock sold under the 2020 Open Market Sales Agreement. During the nine months ended September 30, 2021 we sold 12.3 million shares of our common stock for aggregate gross proceeds of \$68.7 million at a weighted average price of \$5.58 per share under the 2020 Open Market Sales Agreement. We sold 8.2 million shares of our common stock between the dates of November 13, 2020 through February 19, 2021, 4.0 million shares between the dates of May 11, 2021 through June 18, 2021 and 3.3 million shares between the dates of August 24, 2021 and September 10, 2021 for a cumulative total of 15.6 million shares and gross proceeds of \$90.3 million at a weighted average sales price of approximately \$5.80 per share during the life of the 2020 Open Market Sales Agreement. We sold 6.0 million shares of our common stock between the dates of October 21, 2021 and November 5, 2021 for gross proceeds of \$7.4 million at a weighted average sales price of approximately \$1.23 per share.

In August 2021, we filed an additional prospectus supplement under the Registration Statement for the offering, issuance and sale by us of up to a maximum aggregate offering price of \$150.0 million of our common stock that may be issued and sold, from time to time, under an additional sales agreement with Jefferies (the "2021 Open Market Sales Agreement"), pursuant to which we may, from time to time, sell up to \$150.0 million in shares of our common stock through Jefferies. We are not required to sell shares under the 2021 Open Market Sales Agreement. Pursuant to the 2021 Open Market Sales Agreement, Jefferies, as our sales agent, receives a commission of up to 3.0% of the gross sales price for shares of common stock sold under the 2021 Open Market Sales Agreement. As of September 30, 2021 we have sold no shares of our common stock under the 2021 Open Market Sales Agreement.

We expect that the workforce reductions will decrease our future annual cash compensation costs by approximately \$35 million. Our primary sources of cash have been from the sale and issuance of common stock (in both public offerings and private placements) and private placements of convertible preferred stock, funds from our collaboration partnerships and funds from our loan agreement. Our primary uses of cash are to fund operating expenses, primarily research and development expenditures and pre-commercial expenses. Cash used to fund operating expenses is impacted by the timing of when we pay these expenses, as reflected in the change in our outstanding accounts payable and accrued expenses.

### **Funding Requirements**

We believe that our existing capital resources as of September 30, 2021 will enable us to fund our operating expenses and capital expenditure requirements for at least the next 12 months following the filing of this Report on Form 10-Q. We have based this estimate on assumptions that may prove to be wrong, and we could utilize our available capital resources sooner than we currently expect. In particular, our operating plan can change, and we may require significant additional capital to fund our operations, including to support the development, commercialization and manufacturing efforts for tenapanor. We may seek to obtain such additional capital through debt financings, credit facilities, additional equity offerings and/or strategic collaborations. We currently have no unutilized credit facility or committed sources of capital, and there can be no assurances that such sources of capital will be available to us when needed or on acceptable terms. There are numerous risks and uncertainties associated with development and commercialization initiatives, and actual results could vary materially as a result

of a number of factors, many of which are outside of our control. Failure to raise sufficient capital when needed or generate product revenue will further impact our ability to pursue our business strategies and could require us to further delay, scale back or discontinue one or more of our product development programs, commercialization efforts, or other aspects of our business plans. These events could prevent us from successfully executing our operating plan and could raise substantial doubt as to our ability to continue as a going concern in future periods.

Our future capital requirements are difficult to forecast and will depend on many factors, including:

- whether we are successful in our efforts under the FDR process to secure approval for our NDA for tenapanor for the Hyperphosphatemia Indication, or whether we are able during the FDR to reach resolution with the FDA regarding a path to addressing the deficiencies in our NDA noted in the CRL that is achievable in terms of clinical study design, time and cost;
- our ability to successfully commercialize tenapanor for any approved indication, either on our own or with one or more collaboration partners;
- establishing and maintaining supply and manufacturing relationships with third parties that can provide an adequate (in amount and quality) supply of product to support the market demand for tenapanor for the treatment of IBS-C, and/or, if approved, tenapanor for the Hyperphosphatemia Indication;
- obtaining market acceptance of tenapanor as a viable treatment option for the indications for which it is approved and commercialized;
- addressing any competing technological and market developments;
- maintaining, protecting and expanding our portfolio of intellectual property rights, including patents, trade secrets, and know-how, and our ability to develop, manufacture and commercialize our product candidates and products without infringing intellectual property rights of others; and
- attracting, hiring, and retaining qualified personnel.

Please see the risk factors set forth in Part II, Item 1A, Risk Factors, in this Quarterly Report on Form 10-Q for additional risks associated with our capital requirements.

## CASH FLOW ACTIVITIES

The following table summarizes our cash flows (in thousands):

	Nine Months Ended September 30,	
	2021	2020
Cash used in operating activities	\$ (113,082)	\$ (63,845)
Cash (used in) provided by investing activities	28,852	(27,872)
Cash provided by financing activities	68,486	1,593
Net decrease in cash and cash equivalents	\$ (15,744)	\$ (90,124)

### Cash Flows from Operating Activities

Net cash used in operating activities during the nine months ended September 30, 2021 increased by \$49.2 million as a result of our increased net loss for the period. The increased net loss was primarily driven by costs associated with building and staffing our commercial infrastructure and teams as we prepared for the U.S. launch of tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis. The increased net loss was partially offset by a decrease in the amount of \$6.3 million for accrued and other liabilities which was primarily for prepayments for raw materials and production of tenapanor.

### **Cash Flows from Investing Activities**

Net cash (used in) provided by investing activities increased by \$56.7 million as our investment maturities increased to fully offset the cost to purchase investments. During the nine months ended September 30, 2020, investment purchases exceeded maturities by approximately \$27.8 million.

### **Cash Flows from Financing Activities**

Net cash provided by financing activities increased by \$66.9 million due to net proceeds from issuance of our common stock pursuant to the 2020 Open Market Sales Agreement, or at-the-market offering.

### **Off-Balance Sheet Arrangements**

As of September 30, 2021 and 2020, respectively, we did not have any off-balance sheet arrangements as defined in Item 303(a)(4) of Regulation S-K as promulgated by the SEC.

## **ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

*Interest Rate Risk.* We are subject to market risks, including interest rate fluctuation exposure through our investments, in the ordinary course of our business. However, the goals of our investment policy are the preservation of capital, fulfillment of liquidity needs and fiduciary control of cash. To achieve our goal of maximizing income without assuming significant market risk, we maintain our excess cash and cash equivalents in money market funds and short-term debt securities. Because of the short-term maturities of our cash equivalents, we do not believe that a decrease in interest rates would have any material negative impact on the fair value of our cash equivalents.

As of September 30, 2021, we had cash, cash equivalents and investments of \$141.7 million, which consist of bank deposits and money market funds, as well as high quality fixed income instruments including corporate bonds, commercial paper, and asset-backed securities collateralized by non-mortgage consumer receivables. The credit rating of our investments must be rated A-1/P-1, or better by Standard and Poor's and Moody's Investors Service. Asset-backed securities must be rated AAA/Aaa. Money Market funds must be rated AAAm/Aaa. Such interest-earning instruments carry a degree of interest rate risk. However, because our investments are high quality and short-term in duration, we believe that our exposure to interest rate risk is not significant and that a 10% movement in market interest rates would not have a significant impact on the total value of our portfolio, as noted above. We do not enter into investments for trading or speculative purposes.

We are subject to interest rate fluctuation exposure through our borrowings under the Loan Agreement and our investment in money market accounts which bear a variable interest rate. Borrowings under the Loan Agreement bear interest at a rate equal to one-month London Interbank Offered Rate ("LIBOR"), plus 7.45% per annum. A hypothetical increase in one-month LIBOR of 100 basis points above the current one-month LIBOR rates would have increased our interest expense by approximately \$0.4 million for the nine months ended September 30, 2021. As of September 30, 2021, we had an aggregate principal amount of \$50.0 million outstanding pursuant to our Loan Agreement.

*Foreign Currency Risk.* The majority of our transactions are denominated in U.S. dollars. However, we do have certain transactions that are denominated in currencies other than the U.S. dollar, primarily Swiss francs and the euro, and we therefore are subject to foreign exchange risk. The fluctuation in the value of the U.S. dollar against other currencies affects the reported amounts of expenses, assets and liabilities associated with a limited number of manufacturing activities.

We do not use derivative financial instruments for speculative trading purposes, nor do we hedge foreign currency exchange rate exposure in a manner that entirely offsets the earnings effects of changes in foreign currency exchange rates. The counterparties to our forward foreign currency exchange contracts are creditworthy commercial banks, which minimizes the risk of counterparty nonperformance.

As of September 30, 2021, we had no open forward foreign currency exchange contracts.

## **ITEM 4. CONTROLS AND PROCEDURES**

### ***Evaluation of Disclosure Controls and Procedures***

As required by Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), our management, under the supervision and with the participation of our principal executive officer and principal accounting and

financial officer, has evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of September 30, 2021. Any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objective and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on such evaluation, our principal executive officer and principal accounting and financial officer have concluded that, as of September 30, 2021, our disclosure controls and procedures were effective at a reasonable assurance level.

### **Changes in Internal Control Over Financial Reporting**

There were no changes in our internal control over financial reporting that occurred during the quarter ended September 30, 2021, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. We have not experienced any material impact to our internal controls over financial reporting, despite the fact that most of our employees are working remotely due to the COVID-19 pandemic. We are continually monitoring and assessing the COVID-19 situation to minimize the impact on the design and operating effectiveness of our internal controls over financial reporting.

### **Inherent Limitations on Effectiveness of Controls**

Internal control over financial reporting has inherent limitations. Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting also can be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements will not be prevented or detected on a timely basis by internal control over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design into the process safeguards to reduce, though not eliminate, this risk.

## **PART II. OTHER INFORMATION**

### **ITEM 1. LEGAL PROCEEDINGS**

On July 30, 2021, a putative securities class action lawsuit was commenced in the U.S. District Court for the Northern District of California naming as defendants Ardelyx and two current officers. The complaint alleges that the defendants violated Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, and Rule 10b-5 thereunder, by making false and misleading statements and omissions of material fact related to tenapanor. The plaintiff seeks to represent all persons who purchased or otherwise acquired Ardelyx securities between August 6, 2020, and July 19, 2021. The plaintiff seeks damages and interest, and an award of costs, including attorneys' fees. We believe the plaintiff's claims are without merit and we have not recorded any accrual for a contingent liability associated with these legal proceedings.

From time to time, we may be involved in legal proceedings arising in the ordinary course of business. As of September 30, 2021, there is no litigation pending that would reasonably be expected to have a material adverse effect on our results of operations and financial condition, and no contingent liabilities were accrued as of September 30, 2021.

### **ITEM 1A. RISK FACTORS**

*Our business involves significant risks, some of which are described below. You should carefully consider these risks, as well as other information in this Quarterly Report on Form 10-Q, including our condensed financial statements and the notes thereto and "Management's Discussion and Analysis of Financial Condition and Results of Operations." The occurrence of any of the events or developments described below could harm our business, financial condition, results of operations, cash flows, the trading price of our common stock and our growth prospects. Many of the following risks and uncertainties are, and will be, exacerbated by the COVID-19 pandemic and any worsening of the global business and economic environment as a result. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also impair our business operations.*

#### **Summary of Principal Risks Related to Our Business**

- We are substantially dependent on the success of, tenapanor, which may not receive regulatory approval for the control of serum phosphorus in adult patients with CKD on dialysis or for any other related indication (the "Hyperphosphatemia Indication"), and if approved, may not be successfully commercialized for such indication. On July 28, 2021, we received a complete response letter ("CRL") from the FDA regarding our New Drug Application ("NDA") for tenapanor for the Hyperphosphatemia Indication. According to the CRL, the FDA has determined that the magnitude of the treatment effect observed in our Phase 3 clinical trials was small and unclear of clinical significance. We held an End-of-Review Type A

meeting (“End of Review Meeting”) in October 2021, with the FDA’s Division of Cardiology and Nephrology (the “Division”). The End of Review Meeting did not provide a reasonable path forward for resubmission of our NDA. As a result, we currently expect to submit a Formal Dispute Resolution Request (“FDRR”) by the end of the fourth quarter 2021 in order raise our scientific disagreement above the Division level within FDA’s Center for Drug Evaluation and Research (“CDER”). There can be no assurances that the Formal Dispute Resolution (“FDR”) process will result in approval of our NDA, or in a clear path to resubmission of our NDA that is achievable in terms of clinical study design, time and cost. As a result, the regulatory approval process for our NDA is highly uncertain. We may not obtain approval at all, and if we are able to obtain approval, the expense and time to do so could adversely impact our ability to successfully commercialize tenapanor for the Hyperphosphatemia Indication, our business and our results of operations.

- Even if we are successful in obtaining regulatory approval for tenapanor for the Hyperphosphatemia Indication, and tenapanor is ultimately commercialized for such indication or for irritable bowel syndrome (“IBS-C”), tenapanor may never achieve market acceptance, sufficient third-party coverage or reimbursement, or commercial success, which will depend, in part, upon the degree of acceptance among physicians, patients, patient advocacy groups, health care payors and the medical community. Additionally, if the number of patients in the market for the indication for which tenapanor is commercialized or the price that the market can bear is not as significant as we estimate, or if we are not able to secure adequate coverage and reimbursement for tenapanor, we may not generate sufficient revenue from sales of tenapanor.
- We have a limited operating history, have incurred significant losses since our inception and will incur losses in the future, which makes it difficult for us to assess our future viability.
- We have never generated any revenue from product sales and may never be profitable. Our ability to generate future revenue from product sales or pursuant to milestone payments is dependent upon many factors, including, but not limited to, obtaining regulatory approvals for tenapanor for the Hyperphosphatemia Indication, and establishing and maintaining supply and manufacturing relationships with third parties that can provide adequate supply of product to support the market demand for tenapanor; and obtaining market acceptance of tenapanor as a viable treatment option for the indications for which it is approved and commercialized.
- We will require substantial additional financing to achieve our goals, and the inability to access this necessary capital when needed on acceptable terms, or at all, could force us to delay, limit, reduce or terminate our efforts to obtain approval for, or commercialize tenapanor.
- Third-party payor coverage and reimbursement status of newly-approved products are uncertain. Failure to obtain or maintain adequate coverage and reimbursement for tenapanor for any indication for which it is commercialized could limit our ability to market tenapanor for the approved indication and decrease our ability to generate revenue. For example, certain policies of the Biden administration with respect to drug pricing or reimbursement may impact our business and industry. While there is significant uncertainty related to the insurance coverage and reimbursement of newly approved products in general in the United States, there is additional uncertainty related to insurance coverage and reimbursement for drugs that are marketed to the CKD on dialysis population, as would be tenapanor, if approved, for the Hyperphosphatemia Indication. If we are successful in obtaining regulatory approval to market tenapanor for the Hyperphosphatemia Indication, our ability to generate and sustain future revenues from sales of tenapanor for such indication, may be dependent upon whether and when tenapanor, along with other oral end-stage renal disease (“ESRD”) related drugs without an injectable or intravenous equivalent, are bundled into the ESRD prospective payment system, and the manner in which such introduction into the ESRD prospective payment system may occur.
- Most of our sales and marketing team and certain other key employees hired in anticipation of the receipt of marketing approval by the FDA for tenapanor for the Hyperphosphatemia Indication have been notified that their positions will be eliminated by the end of 2021. Should we obtain marketing approval for tenapanor for the Hyperphosphatemia Indication, or determine to commercialize tenapanor for IBS-C, we may not be able to rehire or replace such personnel, and as a result we may not be able to commercialize tenapanor for the Hyperphosphatemia Indication, if approved, or for IBS-C if we determine to do so or any such commercialization may be delayed or adversely impacted.
- We rely completely on third parties to manufacture tenapanor and our other product candidates. If they are unable to comply with applicable regulatory requirements, unable to source sufficient raw materials, experience manufacturing or distribution difficulties or are otherwise unable to manufacture sufficient quantities to meet demand, our commercialization efforts for any approved product, and our development efforts for tenapanor or RDX013 may be materially harmed.
- We may not be successful in our efforts to develop RDX013 as a result of numerous factors, which may include the inability to access capital necessary to fund such efforts on acceptable terms.



- The COVID-19 pandemic continues to rapidly evolve. The extent to which the pandemic may impact our business, manufacturing, preclinical development activities, preclinical studies, planned and ongoing clinical trials, as well as the regulatory process will depend on future developments, which are highly uncertain and cannot be predicted with confidence, such as, the duration of the pandemic, travel restrictions and actions to contain the pandemic or treat its impact, such as social distancing, quarantines or lock-downs in the United States and other countries, business closures or business disruptions and the effectiveness of actions taken in the United States and other countries to contain and treat the disease. Specifically, in order to address the deficiencies noted by the FDA in the CRL, we be required to conduct additional clinical trials, that may be delayed as a result of the restrictions placed on access to dialysis centers during the COVID-19 pandemic. Other potential impacts of the COVID-19 pandemic on our various clinical trials, including our ongoing Phase 2 clinical trial for RDX013, include delays or difficulties in any planned clinical site initiation, including difficulties in obtaining Institutional Review Board approvals, recruiting clinical site investigators and clinical site staff, delays or difficulties in enrolling patients, interruption of planned key clinical trial activities, such as clinical trial site data monitoring due to diversion of resources at clinical sites or limitation on travel imposed by federal or state governments.
- Our operating activities may be restricted as a result of covenants related to the indebtedness under our loan and security agreement and we may be required to repay the outstanding indebtedness in an event of default, which could have a materially adverse effect on our business.
- The regulatory approval processes of the FDA and comparable foreign authorities are lengthy, time consuming and inherently unpredictable. If we are ultimately unable to obtain regulatory approval for our product candidates, including tenapanor for the control of serum phosphorus, or any related indication, our business will be substantially harmed. Even if we receive regulatory approval for a product candidate, we will be subject to ongoing regulatory obligations and continued regulatory review, which may result in significant additional expense. Additionally, any product candidates, if approved, could be subject to labeling and other restrictions and market withdrawal, and we may be subject to penalties if we fail to comply with regulatory requirements or experience unanticipated problems with our products.

### **Risks Related to our Financial Condition and Capital Requirements**

*We have a limited operating history, have incurred significant losses since our inception and we will incur losses in the future, which makes it difficult to assess our future viability.*

We are a clinical-stage biopharmaceutical company with a limited operating history. Biopharmaceutical product development is a highly speculative undertaking and involves a substantial degree of risk. To date, we have focused substantially all of our efforts on our research and development activities, including developing tenapanor and developing our proprietary drug discovery and design platform. To date, we have not commercialized any products or generated any revenue from the sale of products. In July 2021, we received a CRL from the FDA regarding our NDA for tenapanor for the Hyperphosphatemia Indication. Our end of Review Meeting did not provide a reasonable path forward for resubmission of our NDA. Accordingly, we currently expect to submit a FDRR to raise our scientific disagreement above the Division level within CDER. There can be no assurances that the FDR process will result in approval of our NDA or in a clear path to resubmission of our NDA that is achievable in terms of clinical study design, time and cost.

We are not profitable and have incurred losses in each year since our inception in October 2007, and we do not know whether or when we will become profitable. We continue to incur significant research, development and other expenses related to our ongoing operations. As of September 30, 2021, we had an accumulated deficit of \$676.7 million.

We expect to continue to incur substantial operating losses for the foreseeable future as we seek to gain approval for our NDA for tenapanor for the Hyperphosphatemia Indication; prepare for the potential commercialization of tenapanor for any approved indication; incur manufacturing and development costs for tenapanor; and incur development costs for RDX013.

Our prior losses, combined with expected future losses, have had and will continue to have an adverse effect on our stockholders' equity and working capital. Further, the net losses we incur may fluctuate significantly from quarter-to-quarter and year-to-year, such that a period-to-period comparison of our results of operations may not be a good indication of our future performance.

We have substantial net operating loss and tax credit carryforwards for Federal and California income tax purposes. Such net operating losses and tax credits carryforwards may be reduced as a result of certain intercompany restructuring transactions. In addition, the future utilization of such net operating loss and tax credit carryforwards and credits will be subject to

limitations, pursuant to Internal Revenue Code Sections 382 and 383, as a result of ownership changes that have occurred previously and additional limitations may be applicable as a result of ownership changes that could occur in the future.

***We have never generated any revenue from product sales and may never be profitable.***

We received FDA approval for our NDA for tenapanor for the treatment of IBS-C in adults in September 2019. However, to date, we have not commercialized tenapanor for IBS-C ourselves in the United States and have not entered into a collaboration partnership for such commercialization. We have no other products approved for sale and have received a CRL from the FDA for tenapanor relating to our NDA for the Hyperphosphatemia Indication. There can be no assurances that our NDA for tenapanor for the Hyperphosphatemia Indication will be approved for such indication or any other related indication. We have never generated any revenue from product sales. Our ability to generate revenue from product sales and achieve profitability depends on our ability to obtain such approval by the FDA; our ability to successfully commercialize tenapanor for an approved indication; and the ability of our collaboration partners to obtain regulatory approval to market tenapanor in their respective territories. There can be no assurances that we will generate product revenue from sales of tenapanor, either on our own, or with a collaboration partner. Our ability to generate future revenue from product sales or pursuant to milestone payments depends heavily on many factors, including but not limited to:

- whether we are successful in our efforts under the FDR process to secure approval for our NDA for tenapanor for the Hyperphosphatemia Indication, or whether we are able during the FDR to reach resolution with the FDA regarding a path to addressing the deficiencies in our NDA noted in the CRL that is achievable in terms of clinical study design, time and cost;
- our ability to successfully commercialize tenapanor for any approved indication, either on our own or with one or more collaboration partners;
- establishing and maintaining supply and manufacturing relationships with third parties that can provide an adequate (in amount and quality) supply of product to support the market demand for tenapanor for the treatment of IBS-C, and/or, if approved, tenapanor for the Hyperphosphatemia Indication;
- obtaining market acceptance of tenapanor as a viable treatment option for the indications for which it is approved and commercialized;
- addressing any competing technological and market developments;
- maintaining, protecting and expanding our portfolio of intellectual property rights, including patents, trade secrets, and know-how, and our ability to develop, manufacture and commercialize our product candidates and products without infringing intellectual property rights of others; and
- attracting, hiring, and retaining qualified personnel.

In cases where we are successful in obtaining regulatory approvals to market tenapanor for one or more indications, our revenue will be dependent, in part, upon the size of the markets in the territories for which regulatory approval is granted, the breadth of the indication and the label for which approval is granted, accepted price for the product, the ability to get reimbursement at any price and whether we are commercializing the product or the product is being commercialized by a collaboration partner, and in such case, whether we have royalty and/or co-promotion rights for that territory, and whether any royalty we have a right to receive from a collaboration partner is in excess of the royalty we owe AstraZeneca as a result of the termination of our License Agreement with AstraZeneca in 2015. See Note 4, Collaboration and Licensing Agreements, in the notes to our financial statements, included in Part I, Item 1, for details on our obligations to AstraZeneca. While there is significant uncertainty related to the insurance coverage and reimbursement of newly approved products in general in the United States, there is additional uncertainty related to insurance coverage and reimbursement for drugs, like tenapanor for the Hyperphosphatemia Indication, which, if approved, will be marketed for the control of serum phosphorus in adult patients with CKD on dialysis or for another other related indication. If we are successful in obtaining regulatory approval to market tenapanor for such indication, our ability to generate and sustain future revenues from sales of tenapanor for such indication, may be dependent upon whether and when tenapanor, along with other oral ESRD related drugs without an injectable or intravenous equivalent, are bundled into the ESRD prospective payment system, and the manner in which such introduction into the ESRD prospective payment system may occur. See “Third-party payor coverage and reimbursement status of newly-approved products is uncertain. Failure to obtain or maintain adequate coverage and reimbursement for our products, if approved, could limit our ability to market those products and decrease our ability to generate revenue” below. Additionally, if

the number of patients for the approved indication suitable for tenapanor is not as significant as we estimate, the indication approved by regulatory authorities is narrower than we expect, coverage and reimbursement for tenapanor are not available in the manner and to the extent which we expect, or the reasonably accepted population for treatment is narrowed by competition, physician choice or treatment guidelines, we may not generate significant revenue from the sale of tenapanor, even if approved. Even if we achieve profitability in the future, we may not be able to sustain profitability in subsequent periods. Our failure to generate revenue from product sales would likely depress our market value and could impair our ability to raise capital, expand our business, discover or develop other product candidates or continue our operations. A decline in the value of our common stock could cause our stockholders to lose all or part of their investment.

***We will require substantial additional financing to achieve our goals, including our goal of pursuing a formal dispute resolution process in response to the CRL received from the FDA relating to our NDA for tenapanor for the Hyperphosphatemia Indication and the inability to access necessary capital when needed on acceptable terms, or at all, could force us to delay, limit, reduce or terminate our efforts to seek and obtain approval for tenapanor for the Hyperphosphatemia Indication, our efforts to commercialize tenapanor any approved indications, and our development activities for RDX013.***

Since our inception, most of our resources have been dedicated to our research and development activities, including developing tenapanor and developing our proprietary drug discovery and design platform. Following the receipt of the CRL, we have implemented two restructuring plans in order to reduce operating costs and to better align our workforce with the needs of our business. As a result of the second restructuring plan, initiated in October 2021, we will be eliminating all of our research capabilities, along with many positions throughout the Company before the end of 2021. Notwithstanding the restructurings, we believe that we will continue to expend substantial resources for the foreseeable future, including, costs associated with our efforts to pursue approval for our NDA for the Hyperphosphatemia Indication through the FDR process; the commercialization of tenapanor for any approved indication; conducting pediatric clinical trials for tenapanor, if required; development of RDX013; and manufacturing for tenapanor and RDX013. Our future funding requirements will depend on many factors, including, but not limited to:

- whether we are successful in our efforts under the FDR process to secure approval for our NDA for tenapanor for the Hyperphosphatemia Indication, or to reach resolution with the FDA regarding a path to address the deficiencies in the NDA noted in the CRL, and the time and cost associated with such path;
- our ability to successfully commercialize tenapanor for any approved indication, either alone or with one or more collaboration partners;
- the sales price and the availability of adequate third-party reimbursement for tenapanor, if commercialized;
- the manufacturing costs of our product candidates, and the availability of one or more suppliers for our product candidates at reasonable costs, both for clinical and commercial supply;
- the selling and marketing costs associated with tenapanor, including the cost and timing of maintaining or rebuilding our sales and marketing capabilities;
- our ability to maintain our existing collaboration partnerships and to establish additional collaboration partnerships, in-license/out-license, joint ventures or other similar arrangements and the financial terms of such agreements;
- the timing, receipt, and amount of sales of, or royalties on, tenapanor, if any;
- the cash requirements of any future acquisitions or discovery of product candidates;
- any clinical trials we are required to or decide to pursue for tenapanor or RDX013;
- the time and cost necessary to respond to technological and market developments;
- the costs of filing, prosecuting, maintaining, defending and enforcing any patent claims and other intellectual property rights, including litigation costs and the outcome of such litigation, including costs of defending any claims of infringement brought by others in connection with the development, manufacture or commercialization of tenapanor or any of our product candidates; and

- the payment of interest and principal related to our loan and security agreement entered into with Solar Capital and Western Alliance Bank in May 2018, as amended in October 2020, March 2021, May 2021 and July 2021.

Additional funds may not be available when we need them on terms that are acceptable to us, or at all. If adequate funds are not available to us on a timely basis, we may be required to delay, limit, reduce or terminate our clinical trials for tenapanor or RDX013, our maintenance and/or re-establishment of sales and marketing capabilities or other activities that may be necessary to commercialize tenapanor, either alone or with collaboration partners. Additionally, our inability to access capital on a timely basis and on terms that are acceptable to us may force us to restructure certain aspects of our business or identify and complete one or more strategic collaborations or other transactions in order to fund the development or commercialization of tenapanor or certain of our product candidates through the use of alternative structures.

***Our operating activities may be restricted as a result of covenants related to the indebtedness under our loan and security agreement and we may be required to repay the outstanding indebtedness in an event of default, which could have a materially adverse effect on our business.***

On May 16, 2018, we entered into a loan and security agreement with Solar Capital, Ltd. and Western Alliance Bank (collectively, the “Lenders”) pursuant to which the Lenders agreed to provide us a \$50.0 million term loan facility with a maturity date of November 1, 2022. In each of October 2020, March 2021, May 2021 and July 2021, we entered into an amendment to the loan and security agreement. The full amount of the loan was funded on May 16, 2018. Until we have repaid such indebtedness, the loan and security agreement subjects us to various customary covenants, including requirements as to financial reporting and insurance and restrictions on our ability to dispose of our business or property, to change our line of business, to liquidate or dissolve, to enter into any change in control transaction, to merge or consolidate with any other entity or to acquire all or substantially all the capital stock or property of another entity, to incur additional indebtedness, to incur liens on our property, to pay any dividends or other distributions on capital stock other than dividends payable solely in capital stock, to redeem capital stock, to enter into licensing agreements, to engage in transactions with affiliates, and to encumber our intellectual property. Our business may be adversely affected by these restrictions on our ability to operate our business.

We were permitted to make interest only payments on the loan facility through October 31, 2021, with principal repayments commencing on November 1, 2021, and the first such repayment required us to include all payments that would have been due if monthly principal repayment had begun on June 1, 2021. We may be required to repay the outstanding indebtedness under the loan facility if an event of default occurs under the loan and security agreement. An event of default will occur if, among other things, we fail to make payments under the loan and security agreement; we breach any of our covenants under the loan and security agreement, subject to specified cure periods with respect to certain breaches; the Lenders determine that a material adverse change has occurred; we or our assets become subject to certain legal proceedings, such as bankruptcy proceedings; we are unable to pay our debts as they become due; or we default on contracts with third parties which would permit the Lenders to accelerate the maturity of such indebtedness or that could have a material adverse change on us. We may not have enough available cash or be able to raise additional funds through equity or debt financings to repay such indebtedness at the time any such event of default occurs. In this case, we may be required to delay, limit, reduce or terminate clinical trials for tenapanor or RDX013, our maintenance and/or re-establishment of sales and marketing capabilities or other activities that may be necessary to commercialize tenapanor, either alone or with collaboration partners. The Lenders could also exercise their rights as collateral agent to take possession of and to dispose of the collateral securing the term loans, which collateral includes substantially all of our property (excluding intellectual property, which is subject to a negative pledge). Our business, financial condition and results of operations could be materially adversely affected as a result of any of these events.

### **Principal Risks Related to Our Business**

***We are substantially dependent on the success of tenapanor. In July 2021, we received a CRL from the FDA related to our NDA for tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis. We may not receive regulatory approval for tenapanor for such indication, and if approved, we may not be able to successfully commercialize tenapanor for hyperphosphatemia. Although we received marketing approval from the FDA for tenapanor for IBS-C in September 2019, we have not yet commercialized tenapanor for such indication, and should we elect to do so, we may not be successful in such commercialization.***

To date, we have invested a significant amount of our efforts and financial resources in the research and development of tenapanor for the Hyperphosphatemia Indication and the IBS-C indication. The commercial success of tenapanor will depend on a number of factors, including whether tenapanor’s safety and efficacy profile is satisfactory to the FDA and foreign regulatory authorities to gain marketing approval for the Hyperphosphatemia Indication. On July 28, 2021, we received a CRL from the FDA regarding our NDA for tenapanor for the Hyperphosphatemia Indication. According to the CRL, the FDA has determined that the magnitude of the treatment effect observed in our Phase 3 clinical trials was small and unclear of clinical

significance. Additionally, in the CRL, the FDA noted that in order for the NDA to be approved, we will need to conduct an additional adequate and well-controlled trial demonstrating a clinically relevant treatment effect on serum phosphorus or an effect on the clinical outcome thought to be caused by hyperphosphatemia in adult patients with CKD dialysis. In October we held an End of Review Meeting with the Division. The End of Review Meeting did not provide a reasonable path for resubmission of our NDA. Accordingly, we currently expect to submit a FDRR in the fourth quarter 2021. There can be no assurances that the FDR process will result in approval of our NDA or a clear path to resolution of the deficiencies in the NDA noted in the CRL that is achievable in terms of clinical study design, time and cost. As a result, the regulatory approval process for our NDA for the Hyperphosphatemia Indication is highly uncertain. We may not obtain approval at all, and if we are able to obtain approval, the expense and time to do so could adversely impact our ability to successfully commercialize tenapanor for the Hyperphosphatemia Indication, our business and our results of operations. If we are successful in obtaining approval for tenapanor for the Hyperphosphatemia Indication, and tenapanor is commercialized for such indication or for IBS-C, the commercial success of tenapanor will depend on a number of additional factors, including the following:

- the ability of the third-party manufacturers we contract with to provide an adequate (in amount and quality) supply of product to support the market demand for tenapanor for the treatment of IBS-C, and/or if approved, tenapanor for the Hyperphosphatemia Indication, particularly in light of the effects of the COVID-19 pandemic;
- whether or not the content and breadth of the label approved by the FDA or foreign regulatory authorities may materially and adversely impact our ability or the ability of our collaboration partners to commercialize the product for the approved indication, or for any other indication;
- the scope of any clinical trials we are required to conduct to address the deficiencies noted the CRL for the Hyperphosphatemia Indication, and the timing required to conduct such clinical trials;
- the prevalence and severity of adverse side effects of tenapanor;
- our ability, either alone, or with a collaboration partner, to successfully commercialize tenapanor, if approved for marketing and sale by the FDA or foreign regulatory authorities, including educating physicians and patients about the benefits, administration and use of tenapanor;
- achieving and maintaining compliance with all regulatory requirements applicable to tenapanor;
- acceptance of tenapanor as safe, effective and well-tolerated by patients and the medical community, and, with respect to tenapanor for the Hyperphosphatemia Indication, the extent to which the issuance of a CRL by the FDA has impacted the potential acceptance of tenapanor as safe, effective and well-tolerated;
- our ability, alone or with collaboration partners, to manage the complex pricing and reimbursement negotiations associated with marketing the same product at different doses for separate indications for tenapanor for the treatment of IBS-C, and, if approved, for the Hyperphosphatemia Indication;
- the availability, perceived advantages, relative cost, relative safety and relative efficacy of tenapanor compared to alternative and competing treatments;
- obtaining and sustaining an adequate level of coverage and reimbursement for tenapanor by third-party payors;
- enforcing intellectual property rights in and to tenapanor;
- avoiding third-party interference, opposition, derivation or similar proceedings with respect to our patent rights, and avoiding other challenges to our patent rights and patent infringement claims; and
- a continued acceptable safety and tolerability profile of tenapanor following approval.

As tenapanor is a first-in-class drug, there is a higher likelihood that approval may not be attained as compared to a class of drugs with approved products. Although tenapanor met the primary endpoints in all of the three Phase 3 clinical trials evaluating tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis, we received a CRL from the FDA in July 2021 indicating that the magnitude of the treatment effect observed in our Phase 3 clinical trials was small and unclear of clinical significance. We intend to submit a FDRR in the fourth quarter 2021. However, there can be no assurances that we will receive regulatory approval to market tenapanor for the Hyperphosphatemia Indication. Further, even if approved, it may not be possible to market tenapanor on the basis of certain of the benefits we believe tenapanor possesses. If the number

of patients in the market for tenapanor based on the approved indication or the price that the market can bear is not as significant as we estimate, or if we are not able to secure adequate coverage and reimbursement for tenapanor, we may not generate sufficient revenue from sales of tenapanor for the Hyperphosphatemia Indication, if approved, or for IBS-C, if commercialized. There can be no assurance that tenapanor will ever be successfully commercialized or that we will ever generate income from sales of tenapanor. If we are not successful in obtaining approval for tenapanor for the Hyperphosphatemia Indication, or we are not successful in commercializing tenapanor for any approved indication, or are significantly delayed in doing so, our business will be materially harmed.

***Even if we determine to commercialize tenapanor for IBS-C, or are successful in obtaining regulatory approval for tenapanor for the Hyperphosphatemia Indication, and tenapanor is ultimately commercialized for any approved indications, tenapanor may never achieve market acceptance, sufficient third-party coverage or reimbursement, or commercial success, which will depend, in part, upon the degree of acceptance among physicians, patients, patient advocacy groups, health care payors and the medical community.***

Market acceptance of tenapanor for IBS-C and, in the event that marketing approval is obtained, for the Hyperphosphatemia Indication, depends on a number of factors, including:

- the breadth and content of the approved label, and the clinical indications for which it is approved;
- the efficacy demonstrated in our clinical trials;
- with respect to tenapanor for the Hyperphosphatemia Indication, whether tenapanor, along with other oral only medications, are included in the bundled prospective payment system for the treatment of ESRD patients, and the time and manner in which such transition is achieved;
- the prevalence and severity of any side effects and overall safety and tolerability profile of the product;
- advantages over new or traditional or existing therapies, including recently approved therapies or therapies that the physician community anticipate will be approved;
- acceptance by physicians, major operators of clinics and patients of tenapanor as a safe, effective and well-tolerated treatment, and, with respect to tenapanor for the Hyperphosphatemia Indication, the extent to which the issuance of a CRL by the FDA has impacted the potential acceptance of tenapanor as safe, effective and well-tolerated;
- relative convenience and ease of administration of tenapanor;
- the potential and perceived advantages of tenapanor over current treatment options or alternative treatments, including future alternative treatments;
- the cost of treatment in relation to alternative treatments and the willingness to pay for tenapanor, if approved, on the part of physicians and patients;
- the availability of alternative products and their ability to meet market demand; and
- the quality of our relationships with patient advocacy groups.

Any failure of tenapanor to achieve market acceptance, sufficient third-party coverage or reimbursement, or commercial success for any approved indications would adversely affect our results of operations.

***Most of our sales and marketing team and certain other key employees hired in anticipation of the receipt of marketing approval by the FDA for tenapanor for the Hyperphosphatemia Indication have been notified that their positions will be eliminated by the end of 2021. Should we obtain marketing approval for tenapanor for Hyperphosphatemia, or determine to commercialize tenapanor for IBS-C, we may not be able to rehire or replace such personnel, and as a result we may not be able to commercialize tenapanor for the Hyperphosphatemia Indication, if approved, or for IBS-C if we determine to do so or any such commercialization may be delayed or otherwise adversely impacted.***

If approved, we currently plan to commercialize tenapanor for the Hyperphosphatemia Indication, on our own. Many members of our sales and marketing leadership teams, our sales employees with technical expertise and certain other key

employees necessary to successfully commercialize tenapanor for any indication have had their positions eliminated by our restructuring plans adopted in August and October 2021. Even if we are successful in obtaining regulatory approval to market tenapanor for the Hyperphosphatemia Indication, or if we determine to commercialize tenapanor for IBS-C, there can be no assurances that we will be able to rehire or replace such personnel.

If we fail to rehire or replace our internal sales, marketing and distribution capabilities, or other key employees necessary to successfully commercialize tenapanor, we may need to delay the commercialization of tenapanor for the Hyperphosphatemia Indication, if approved, or the commercialization of tenapanor for IBS-C if sought, or either such commercialization could be adversely impacted.

***Third-party payor coverage and reimbursement status of newly-approved products are uncertain. Failure to obtain or maintain adequate coverage and reimbursement for our products, if approved, could limit our ability to market those products and decrease our ability to generate revenue.***

The pricing, coverage and reimbursement of our product candidates, if approved, must be adequate to support a commercial infrastructure. The availability and adequacy of coverage and reimbursement by governmental and private payors are essential for most patients to be able to afford treatments such as tenapanor for the Hyperphosphatemia Indication, assuming approval, or tenapanor for IBS-C. In the event that tenapanor is commercialized, sales will depend substantially, both domestically and abroad, on the extent to which the costs of tenapanor will be paid for by health maintenance, managed care, pharmacy benefit, and similar healthcare management organizations, or reimbursed by government authorities, private health insurers, and other third-party payors. If coverage and reimbursement are not available, or are available only to limited levels, we, or our collaboration partners, may not be able to successfully commercialize our product candidates. Even if coverage is provided, the approved reimbursement amount may not be high enough to allow us to establish or maintain pricing sufficient to realize a return on our investment.

There is significant uncertainty related to the insurance coverage and reimbursement of newly approved products. In the United States, the principal decisions about coverage and reimbursement for new drugs are typically made by the Centers for Medicare & Medicaid Services (“CMS”), an agency within the United States Department of Health and Human Services responsible for administering the Medicare program, as CMS decides whether and to what extent a new drug will be covered and reimbursed under Medicare. Private payors tend to follow the coverage reimbursement policies established by CMS to a substantial degree. It is difficult to predict what CMS will decide with respect to reimbursement for products such as ours.

There is increased uncertainty related to insurance coverage and reimbursement for drugs, like tenapanor for the Hyperphosphatemia Indication, which, if approved, will be marketed for the control of serum phosphorus in adult patients with CKD on dialysis or for another other related indication. In January 2011, CMS implemented a new prospective payment system for dialysis treatment. Under the ESRD prospective payment system, CMS generally makes a single bundled payment to the dialysis facility for each dialysis treatment that covers all items and services routinely required for dialysis treatments furnished to Medicare beneficiaries in Medicare-certified ESRD facilities or at their home, including the cost of certain routine drugs. The inclusion of oral medications without injectable or intravenous equivalents in the bundled payment was initially delayed until January 1, 2014 and through several subsequent legislative actions was delayed until January 1, 2025. As a result, absent further legislation or regulation on this matter, beginning in 2025, oral ESRD-related drugs without injectable or intravenous equivalents may be included in the ESRD bundle and separate Medicare payment for these drugs will no longer be available, as is the case today under Medicare Part D. While it is too early to project the full impact that bundling may have on tenapanor and our business should tenapanor be brought into the bundle in 2025, or at any time, we may be unable to sell tenapanor for the Hyperphosphatemia Indication, if approved, to dialysis providers on a profitable basis if third-party payors reduce their current levels of payment, or if our costs of production are higher than levels necessary for an appropriate gross margin after payment of all discounts, rebates and chargebacks.

Outside the United States, international operations are generally subject to extensive governmental price controls and other market regulations, and we believe the increasing emphasis on cost-containment initiatives in Europe, Canada, Japan, China and other countries has and will continue to put pressure on the pricing and usage of our product candidates. In many countries, the prices of medical products are subject to varying price control mechanisms as part of national health systems. Other countries allow companies to fix their own prices for medicinal products, but monitor and control company profits. Additional foreign price controls or other changes in pricing regulation could restrict the amount that we are able to charge for our product candidates. Accordingly, in markets outside the United States, the reimbursement for our products may be reduced compared with the United States and may be insufficient to generate commercially reasonable revenue and profits.



Moreover, increasing efforts by governmental and third-party payors in the United States and abroad to cap or reduce healthcare costs may cause such organizations to limit both coverage and the level of reimbursement for newly approved products and, as a result, these caps may not cover or provide adequate payment for our product candidates. We expect to experience pricing pressures in connection with the sale of any of our product candidates due to the trend toward managed healthcare, the increasing influence of health maintenance organizations, and additional legislative changes. The downward pressure on healthcare costs in general, particularly prescription drugs and surgical procedures and other treatments, has become very intense. As a result, increasingly high barriers are being erected to the entry of new products.

***We rely completely on third parties to manufacture tenapanor and RDX013. If they are unable to comply with applicable regulatory requirements, unable to source sufficient raw materials, experience manufacturing or distribution difficulties or are otherwise unable to manufacture sufficient quantities to meet demand, our commercialization of tenapanor for any approved indication and our development efforts for tenapanor and RDX013 may be materially harmed.***

We do not currently have, nor do we plan to acquire, the infrastructure or capability internally to manufacture tenapanor or any of our other product candidates on a commercial scale, or to manufacture our drug supplies for use in the conduct of our nonclinical and clinical studies. The facilities used by our contract manufacturers to manufacture our drug supply are subject to inspection by the FDA. Our ability to control the manufacturing process of our product candidates is limited to the contractual requirements and obligations we impose on our contract manufacturer. Although they are contractually required to do so, we are completely dependent on our contract manufacturing partners for compliance with the regulatory requirements, known as current Good Manufacturing Practice requirements (“cGMPs”), for manufacture of both active drug substances and finished drug products.

The manufacture of pharmaceutical products requires significant expertise and capital investment. Manufacturers of pharmaceutical products often encounter difficulties in commercial production. These problems may include difficulties with production costs and yields, quality control, including stability of the product and quality assurance testing, and shortages of qualified personnel, as well as compliance with federal, state and foreign regulations and the challenges associated with complex supply chain management. Even if our contract manufacturers do not experience problems and commercial manufacturing is achieved, their maximum or available manufacturing capacities may be insufficient to meet commercial demand. Finding alternative manufacturers or adding additional manufacturers requires a significant amount of time and involves significant expense. New manufacturers would need to develop and implement the necessary production techniques and processes, which along with their facilities, would need to be inspected and approved by the regulatory authorities in each applicable territory. In addition, the raw materials necessary to make API for our products are acquired from a limited number of sources. Any delay or disruption in the availability of these raw materials could result in production disruptions, delays or higher costs with consequent adverse effects on us.

If our contract manufacturers fail to adhere to applicable GMP or other regulatory requirements, experience delays or disruptions in the availability of raw materials or experience manufacturing or distribution problems, we may suffer significant consequences, including the inability to meet our product requirements for our clinical development programs, and if tenapanor is commercialized for any indication, such events could result in product seizures or recalls, loss of product approval, fines and sanctions, reputational damage, shipment delays, inventory shortages, inventory write-offs and other product-related charges and increased manufacturing costs. As a result, or if maximum or available manufacturing capacities are insufficient to meet demand, our development or our commercialization efforts for tenapanor for the control of serum phosphorus or for another other related indication, if approved, may be materially harmed.

#### **Additional Risks Related to Our Business and Industry**

***Clinical drug development involves a lengthy and expensive process with an uncertain outcome and the results of earlier studies and trials may not be predictive of future trial results.***

Before obtaining marketing approval from regulatory authorities for the sale of our product candidates, we must conduct extensive clinical studies to demonstrate the safety and efficacy of the product candidates in humans. Clinical testing is expensive and can take many years to complete, and its outcome is inherently uncertain. Failure can occur at any time during the clinical trial process. The results of preclinical and clinical studies of our product candidates, including RDX013, may not be predictive of the results of later-stage clinical trials. An unexpected adverse event profile, or the results of drug-drug interaction studies, may present challenges for the future development and commercialization of a product candidate for a particular condition despite receipt of positive efficacy data in a clinical study. A number of companies in the pharmaceutical, biopharmaceutical and biotechnology industries have suffered significant setbacks in advanced clinical trials for similar indications that we are pursuing due to lack of efficacy or adverse safety profiles, notwithstanding promising results in earlier studies, and we cannot be certain that we will not face similar setbacks.



Our ongoing RDX013 Phase 2 clinical trial may be impacted by the COVID-19 pandemic in a number of ways, including delays or difficulties in any planned clinical site initiation, difficulties in obtaining IRB approvals, recruiting clinical site investigators and clinical site staff, delays or difficulties in enrolling patients, interruption of planned key clinical trial activities, such as clinical trial site data monitoring due to diversion of resources at clinical sites or limitation on travel imposed by federal or state governments.

Furthermore, we could encounter delays if our ongoing RDX013 Phase 2 clinical trial is suspended or terminated by us, by the IRBs of the institutions in which the trial is being conducted, or by the FDA or other regulatory authorities. Such authorities may suspend or terminate a clinical trial due to a number of factors, including failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols, inspection of the clinical trial operations or trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using a drug, changes in governmental regulations or administrative actions or lack of adequate funding to continue the clinical trial.

In addition, identifying and qualifying patients to participate in our RDX013 Phase 2 clinical trial is critical to the success of the clinical trial. The timing of our clinical trials depends, in part, on the speed at which we can recruit patients to participate in testing our product candidates. Patients may be unwilling to participate in our clinical studies because of concerns about adverse events observed with the current standard of care, competitor products and/or other investigational agents, in each case for the same indications and/or similar patient populations. In addition, patients currently receiving treatment with the current standard of care or a competitor product may be reluctant to participate in a clinical trial with an investigational drug, or our inclusion and exclusion criteria for our clinical trials may present challenges in identifying acceptable patients. As a result, the timeline for recruiting patients and conducting our RDX013 Phase 2 clinical trial may be delayed. These delays could result in increased costs, delays in advancing our development of oRDX013, or termination of the clinical studies altogether. Any of these occurrences may significantly harm our business, financial condition and prospects.

***We rely on third parties to conduct some of our nonclinical studies and all of our clinical trials. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, we may be unable to obtain regulatory approval for additional products or commercialize our product candidates.***

We do not have the ability to independently conduct clinical trials and, in some cases, nonclinical studies. We rely on medical institutions, clinical investigators, contract laboratories, and other third parties, such as CROs, to conduct clinical trials on our product candidates. The third parties with whom we contract for execution of the clinical trials play a significant role in the conduct of these trials and the subsequent collection and analysis of data. However, these third parties are not our employees, and except for contractual duties and obligations, we control only certain aspects of their activities and have limited ability to control the amount or timing of resources that they devote to our programs. Although we rely, and will continue to rely, on these third parties to conduct some of our nonclinical studies and all of our clinical trials, we remain responsible for ensuring that each of our studies and clinical trials is conducted in accordance with the applicable protocol, legal, regulatory and scientific standards and our reliance on third parties does not relieve us of our regulatory responsibilities. We, and these third parties are required to comply with current GLPs for nonclinical studies, and good clinical practices (“GCPs”) for clinical studies. GLPs and GCPs are regulations and guidelines enforced by the FDA, the Competent Authorities of the Member States of the European Economic Area (“EEA”) and comparable foreign regulatory authorities for all of our products in nonclinical and clinical development, respectively. Regulatory authorities enforce GCPs through periodic inspections of trial sponsors, principal investigators and trial sites. If we or any of our third-party contractors fail to comply with applicable regulatory requirements, including GCPs, the clinical data generated in our clinical trials may be deemed unreliable and the FDA, the European Medicines Agency (“EMA”), or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. There can be no assurance that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials comply with GCP regulations. In addition, our clinical trials must be conducted with product produced under cGMP regulations. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process.

***Our products or product candidates may cause undesirable side effects or have other properties that could delay our clinical trials, or delay or prevent regulatory approval, limit the commercial profile of an approved label, or result in significant negative consequences following any regulatory approval that is achieved. If we or others identify undesirable side effects caused by any product candidate following receipt of marketing approval, the ability to market such product candidate could be compromised.***

Undesirable side effects caused by our products or product candidates could cause us or regulatory authorities to interrupt, delay or halt clinical trials, result in the delay or denial of regulatory approval by the FDA or other comparable foreign regulatory authorities or limit the commercial profile of an approved label. To date, patients treated with tenapanor have

experienced drug-related side effects including diarrhea, nausea, vomiting, flatulence, abdominal discomfort, abdominal pain, abdominal distention and changes in electrolytes. Despite our receipt of marketing approval for tenapanor for IBS-C in adults and the completion of our Phase 3 clinical program for tenapanor for the Hyperphosphatemia Indication, in the event that future trials conducted by us with tenapanor, or trials we conduct with RDX013 or our other product candidates, reveal an unacceptable severity and prevalence of these or other side effects, such trials could be suspended or terminated and the FDA or comparable foreign regulatory authorities could order us to cease further development of or deny approval of tenapanor, RDX013, or any such other product candidate, for any or all targeted indications. Additionally, despite a positive efficacy profile, the prevalence and/or severity of these or other side effects could cause us to cease further development of a product candidate for a particular indication, or entirely. The drug-related side effects could affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims. Any of these occurrences may harm our business, financial condition and prospects significantly.

In addition, if we or others identify undesirable side effects caused by one of our products for which we have received regulatory approval, a number of potentially significant negative consequences could occur, including:

- regulatory authorities may withdraw their approval of the product or seize the product;
- we or a collaboration partner may be required to recall the product;
- additional restrictions may be imposed on the marketing of the particular product or the manufacturing processes for the product or any component thereof, including the imposition of a Risk Evaluation and Mitigation Strategy (“REMS”) which could require creation of a Medication Guide or patient package insert outlining the risks of such side effects for distribution to patients, a communication plan to educate healthcare providers of the drugs’ risks, as well as other elements to assure safe use of the product, such as a patient registry and training and certification of prescribers;
- we or a collaboration partner may be subject to fines, injunctions or the imposition of civil or criminal penalties;
- regulatory authorities may require the addition of labeling statements, such as a “black box” warning or a contraindication;
- we could be sued and held liable for harm caused to patients;
- the product may become less competitive; and
- our reputation may suffer.

Any of the foregoing events could prevent us, or a collaboration partner, from achieving or maintaining market acceptance of a particular product candidate, if approved, and could result in the loss of significant revenue to us, which would materially and adversely affect our results of operations and business.

***We face substantial competition and our competitors may discover, develop or commercialize products faster or more successfully than us.***

The biotechnology and pharmaceutical industries are highly competitive, and we face significant competition from companies in the biotechnology, pharmaceutical and other related markets that are researching and marketing products designed to address diseases that we are currently developing products to treat. If approved for marketing by the FDA or other regulatory agencies, tenapanor, as well as our other product candidates, would compete against existing treatments.

For example, tenapanor, if approved for the control of serum phosphorus in adult patients with CKD on dialysis or for another related indication, will compete with phosphate binders used for the same or similar indication. If approved, our label for tenapanor for the control of serum phosphorus may include data comparing the effectiveness of tenapanor to phosphate binders used for the same indication. The various types of phosphate binders commercialized in the United States include the following:

- Calcium carbonate (many over-the-counter brands including Tums and Caltrate);
- Calcium acetate (several prescription brands including PhosLo and Phoslyra);
- Lanthanum carbonate (Fosrenol);

- Sevelamer hydrochloride (Renagel);
- Sevelamer carbonate (Renvela);
- Sucroferric oxyhydroxide (Velphoro); and
- Ferric citrate (Auryxia).

All of the phosphate binders listed above are available as generics in the U.S., with the exception of Velphoro and Auryxia. In addition to the currently available phosphate binders, we are aware of at least two other binders in development, including fermagate (Alpharen), an iron-based binder in Phase 3 being developed by Opko Health, Inc., and PT20, an iron-based binder in Phase 3 being developed by Shield Therapeutics.

In respect of tenapanor for the treatment of IBS-C, numerous treatments exist for constipation and the constipation component of IBS-C, many of which are over-the-counter. These include psyllium husk (such as Metamucil), methylcellulose (such as Citrucel), calcium polycarbophil (such as FiberCon), lactulose (such as Cephulac), polyethylene glycol (such as MiraLax), sennosides (such as Exlax), bisacodyl (such as Dulcolax), docusate sodium (such as Colace), magnesium hydroxide (such as Milk of Magnesia), saline enemas (such as Fleet) and sorbitol. These agents are generally inexpensive and work well to temporarily relieve constipation.

We are aware of four prescription products marketed for certain patients with IBS-C, including Linzess (linaclotide), Amitiza (lubiprostone), Trulance (plecanatide) and Zelnorm (tegaserod maleate).

It is possible that our competitors' drugs may be less expensive and more effective than our product candidates, or that will render our product candidates obsolete. It is also possible that our competitors will commercialize competing drugs or treatments before we or our collaboration partners can launch any products developed from our product candidates. We also anticipate that we will face increased competition in the future as new companies enter into our target markets.

Many of our competitors have materially greater name recognition and financial, manufacturing, marketing, research and drug development resources than we do. Additional mergers and acquisitions in the biotechnology and pharmaceutical industries may result in even more resources being concentrated in our competitors. Large pharmaceutical companies in particular have extensive expertise in preclinical and clinical testing and in obtaining regulatory approvals for drugs. In addition, academic institutions, government agencies, and other public and private organizations conducting research may seek patent protection with respect to potentially competitive products or technologies. These organizations may also establish exclusive collaboration partnerships or licensing relationships with our competitors.

***We may experience difficulties in managing our current activities and growth given our level of managerial, operational, financial and other resources.***

Following the receipt of the CRL, we have implemented two restructuring plans in order to reduce operating costs and to better align our workforce with the needs of our business. As a result of the second restructuring plan, initiated in October 2021, before the end of 2021, we will be eliminating all of our research capabilities, along with many positions throughout the Company, many of which would be necessary to support the commercialization of a product. Our need to effectively execute our business strategy requires that we:

- manage any commercialization activities in which we may engage effectively;
- manage our clinical trials effectively;
- manage our internal development efforts effectively while carrying out our contractual obligations to licensors, contractors, collaborators, government agencies and other third parties;
- continue to improve our operational, financial and management controls, reporting systems and procedures; and
- retain and motivate our remaining employees and potentially identify, recruit, and integrate additional employees.

If we are unable to maintain or expand our managerial, operational, financial and other resources to the extent required to manage our development and commercialization activities, our business will be materially adversely affected.

***If product liability lawsuits are brought against us, we may incur substantial liabilities and may be required to limit commercialization of our product candidates.***

We face an inherent risk of product liability as a result of the clinical testing of our product candidates and will face an even greater risk if we commercialize any products. For example, we may be sued if any product we develop allegedly causes injury or is found to be otherwise unsuitable during product testing, manufacturing, marketing or sale. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product, negligence, strict liability, and a breach of warranties. Claims could also be asserted under state consumer protection acts. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our product candidates. Even successful defense would require significant financial and management resources. Regardless of the merits or eventual outcome, liability claims may result in:

- decreased demand for our product candidates;
- injury to our reputation;
- withdrawal of clinical trial participants;
- costs to defend the related litigation;
- a diversion of management's time and our resources;
- substantial monetary awards to trial participants or patients;
- regulatory investigations, product recalls or withdrawals, or labeling, marketing or promotional restrictions;
- loss of revenue; and
- the inability to commercialize or co-promote our product candidates.

Our inability to obtain and maintain sufficient product liability insurance at an acceptable cost and scope of coverage to protect against potential product liability claims could prevent or inhibit the commercialization of any products we develop. Although we maintain product liability insurance, any claim that may be brought against us could result in a court judgment or settlement in an amount that is not covered, in whole or in part, by our insurance or that is in excess of the limits of our insurance coverage. Our insurance policies also have various exclusions and deductibles, and we may be subject to a product liability claim for which we have no coverage. We will have to pay any amounts awarded by a court or negotiated in a settlement that exceed our coverage limitations or that are not covered by our insurance, and we may not have, or be able to obtain, sufficient capital to pay such amounts. Moreover, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses.

***If we fail to attract, retain and motivate our executives, senior management and key personnel, our business will suffer.***

Recruiting and retaining qualified scientific, clinical, medical, manufacturing, and sales and marketing personnel is critical to our success. We are highly dependent on our executives, senior management and certain other key employees. The loss of the services of our executives, senior management or other key employee could impede the achievement of our development and commercial objectives and seriously harm our ability to successfully implement our business strategy. Furthermore, replacing executives, senior management and other key employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to successfully develop, gain marketing approval of and commercialize products. We may be unable to hire, train or motivate these key personnel on acceptable terms given the intense competition among numerous biopharmaceutical companies for similar personnel, particularly in our geographic regions. If we are unable to continue to attract and retain high quality personnel, our ability to grow and pursue our business strategy will be limited.

***Actual or perceived failures to comply with applicable data protection, privacy and security laws, regulations, standards and other requirements could adversely affect our business, results of operations, and financial condition.***

The global data protection landscape is rapidly evolving, and we are or may become subject to numerous state, federal and foreign laws, requirements and regulations governing the collection, use, disclosure, retention, and security of personal data,

such as information that we may collect in connection with clinical trials in the U.S. and abroad. Implementation standards and enforcement practices are likely to remain uncertain for the foreseeable future, and we cannot yet determine the impact future laws, regulations, standards, or perception of their requirements may have on our business. This evolution may create uncertainty in our business, affect our ability to operate in certain jurisdictions or to collect, store, transfer use and share personal information, necessitate the acceptance of more onerous obligations in our contracts, result in liability or impose additional costs on us. The cost of compliance with these laws, regulations and standards is high and is likely to increase in the future. Any failure or perceived failure by us to comply with federal, state or foreign laws or regulation, our internal policies and procedures or our contracts governing our processing of personal information could result in negative publicity, government investigations and enforcement actions, claims by third parties and damage to our reputation, any of which could have a material adverse effect on our operations, financial performance and business.

As our operations and business grow, we may become subject to or affected by new or additional data protection laws and regulations and face increased scrutiny or attention from regulatory authorities. In the U.S., HIPAA imposes, among other things, certain standards relating to the privacy, security, transmission and breach reporting of individually identifiable health information. Certain states have also adopted comparable privacy and security laws and regulations, some of which may be more stringent than HIPAA. Such laws and regulations will be subject to interpretation by various courts and other governmental authorities, thus creating potentially complex compliance issues for us and our future customers and strategic partners. In addition, California enacted the California Consumer Privacy Act ("CCPA") on June 28, 2018, which went into effect on January 1, 2020. The CCPA creates individual privacy rights for California consumers and increases the privacy and security obligations of entities handling certain personal information. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches that is expected to increase data breach litigation. The CCPA may increase our compliance costs and potential liability, and many similar laws have been proposed at the federal level and in other states. Further, the California Privacy Rights Act (CPRA) recently passed in California. The CPRA will impose additional data protection obligations on covered businesses, including additional consumer rights processes, limitations on data uses, new audit requirements for higher risk data, and opt outs for certain uses of sensitive data. It will also create a new California data protection agency authorized to issue substantive regulations and could result in increased privacy and information security enforcement. The majority of the provisions will go into effect on January 1, 2023, and additional compliance investment and potential business process changes may be required. In the event that we are subject to or affected by HIPAA, the CCPA, the CPRA or other domestic privacy and data protection laws, any liability from failure to comply with the requirements of these laws could adversely affect our financial condition.

In Europe, the European Union General Data Protection Regulation (GDPR) went into effect in May 2018 and imposes strict requirements for processing the personal data of individuals within the European Economic Area (EEA). Companies that must comply with the GDPR face increased compliance obligations and risk, including more robust regulatory enforcement of data protection requirements and potential fines for noncompliance of up to €20 million or 4% of the annual global revenues of the noncompliant company, whichever is greater. Relatedly, following the United Kingdom's withdrawal from the European Economic Area and the European Union, and the expiry of the transition period, companies have to comply with both the GDPR and the GDPR as incorporated into United Kingdom national law, the latter regime having the ability to separately fine up to the greater of £17.5 million or 4% of global turnover. The relationship between the United Kingdom and the European Union in relation to certain aspects of data protection law remains unclear, for example around how data can lawfully be transferred between each jurisdiction, which may expose us to further compliance risk.

Although we work to comply with applicable laws, regulations and standards, our contractual obligations and other legal obligations, these requirements are evolving and may be modified, interpreted and applied in an inconsistent manner from one jurisdiction to another, and may conflict with one another or other legal obligations with which we must comply. Any failure or perceived failure by us or our employees, representatives, contractors, consultants, CROs, collaborators, or other third parties to comply with such requirements or adequately address privacy and security concerns, even if unfounded, could result in additional cost and liability to us, damage our reputation, and adversely affect our business and results of operations.

***We and our collaborators, CROs and other contractors and consultants depend on information technology systems, and any failure of these systems could harm our business. Security breaches, loss of data, and other disruptions could compromise sensitive information related to our business or prevent us from accessing critical information and expose us to liability, which could adversely affect our business, results of operations and financial condition.***

We and our collaborators, CROs, and other contractors and consultants collect and maintain information in digital form that is necessary to conduct our business, and we are increasingly dependent on information technology systems and infrastructure to operate our business. In the ordinary course of our business, we and our collaborators, CROs and other contractors and consultants collect, store and transmit large amounts of confidential information, including intellectual property,

proprietary business information and personal information. It is critical that we and our collaborators, CROs and other contractors and consultants do so in a secure manner to maintain the confidentiality and integrity of such confidential information. We have established physical, electronic and organizational measures to safeguard and secure our systems to prevent a data compromise, and rely on commercially available systems, software, tools, and monitoring to provide security for our information technology systems and the processing, transmission and storage of digital information. We have also outsourced elements of our information technology infrastructure, and as a result a number of third-party vendors may or could have access to our confidential information. Our internal information technology systems and infrastructure, and those of our current and any future collaborators, CROs, contractors and consultants and other third parties on which we rely, are vulnerable to damage from computer viruses, malware, natural disasters, terrorism, war, telecommunication and electrical failures, cyber-attacks or cyber-intrusions over the Internet, attachments to emails, persons inside our organization, or persons with access to systems inside our organization.

The risk of a security breach or disruption or data loss, particularly through cyber-attacks or cyber intrusion, including by computer hackers, foreign governments and cyber terrorists, has generally increased as the number, intensity and sophistication of attempted attacks and intrusions from around the world have increased. In addition, the prevalent use of mobile devices that access confidential information increases the risk of data security breaches, which could lead to the loss of confidential information or other intellectual property. As a result of the COVID-19 pandemic, we may also face increased cybersecurity risks due to our reliance on internet technology and the number of our employees who are working remotely, which may create additional opportunities for cybercriminals to exploit vulnerabilities. Furthermore, because the techniques used to obtain unauthorized access to, or to sabotage, systems change frequently and often are not recognized until launched against a target, we may be unable to anticipate these techniques or implement adequate preventative measures. We may also experience security breaches that may remain undetected for an extended period. The costs to us to mitigate network security problems, bugs, viruses, worms, malicious software programs and security vulnerabilities could be significant, and while we have implemented security measures to protect our data security and information technology systems, our efforts to address these problems may not be successful, and these problems could result in unexpected interruptions, delays, cessation of service and other harm to our business and our competitive position. If such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our product development programs, and/or of our efforts to commercialize tenapanor for the control of serum phosphorus in adult patients with CKD on dialysis or for another other related indication, if approved. For example, the loss of clinical trial data from completed or ongoing or planned clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. In addition, such a breach may require notification to governmental agencies, the media or individuals pursuant to various federal and state privacy and security laws, if applicable, including HIPAA. Moreover, if a computer security breach affects our systems or those of our collaborators, CROs or other contractors, or results in the unauthorized release of personally identifiable information, our reputation could be materially damaged. We would also be exposed to a risk of loss or litigation and potential liability, which could materially adversely affect our business, results of operations and financial condition.

***We have previously identified a material weakness in our internal control over financial reporting. If we fail to maintain proper and effective internal controls, our ability to produce accurate and timely financial statements could be impaired, which could harm our operating results, our ability to operate our business and investors' views of us and could have a material adverse effect on the price of our common stock.***

In 2019, management and our independent registered public accounting firm identified a control deficiency that constituted a material weakness in our internal control over financial reporting. The material weakness was due to a failure in the design and implementation of controls over the evaluation of the terms of our clinical trial contracts for inclusion into our clinical financial model which estimates clinical trial expenses. Specifically, we had failed to properly interpret an expense in our clinical trial contracts which resulted in the over accrual of our clinical trial expenses during 2018 and the first quarter of 2019.

We developed and implemented a remediation plan for this material weakness which included modifications to the design and implementation of certain internal controls, and the material weakness was remediated as of December 31, 2019. Although we have remediated this material weakness, as attested by our independent registered public accounting firm, we can give no assurance that an additional material weakness or significant deficiency in our internal controls over financial reporting will not be identified in the future. Our failure to implement and maintain effective internal controls over financial reporting could result in errors in our financial statements that could result in a restatement of our financial statements and cause us to fail to meet our reporting obligations. If we cannot in the future favorably assess the effectiveness of our internal controls over financial reporting, investor confidence in the reliability of our financial reports may be adversely affected, which could have a material adverse effect on the trading price of our common stock.

***We have formed in the past, and may form in the future, collaboration partnerships, joint ventures and/or licensing arrangements, and we may not realize the benefits of such collaborations.***

We have current collaboration partnerships for the commercialization of tenapanor in certain foreign countries, and we may form additional collaboration partnerships, create joint ventures or enter into additional licensing arrangements with third parties in the United States and abroad that we believe will complement or augment our existing business. In particular, we have formed collaboration partnerships with KKC for commercialization of tenapanor for hyperphosphatemia in Japan; with Fosun Pharma for commercialization of tenapanor for hyperphosphatemia and IBS-C in China and related territories; and in Canada with Knight for commercialization of tenapanor for IBS-C and hyperphosphatemia. We face significant competition in seeking appropriate collaboration partners, and the process to identify an appropriate partner and negotiate appropriate terms is time-consuming and complex. Any delays in identifying suitable additional collaboration partners and entering into agreements to develop our product candidates could also delay the commercialization of our product candidates, which may reduce their competitiveness even if they reach the market. There is no guarantee that our current collaboration partnerships or any such arrangements we enter into in the future will be successful, or that any collaboration partner will commit sufficient resources to the development, regulatory approval, and commercialization effort for such products, or that such alliances will result in us achieving revenues that justify such transactions. We have received a CRL from the FDA regarding our NDA for the Hyperphosphatemia Indication. While we intend to submit a FDRR, there can be no assurances that we will be successful in obtaining approval for tenapanor for the Hyperphosphatemia Indication. Even if we are successful in obtaining approval for the NDA, the delay in obtaining such approval will likely result in delay in the regulatory process for our partners, which could have a material adverse effect on our business and results of operations.

***The ongoing COVID-19 pandemic, or any other outbreak of epidemic diseases, or the perception of their effects, could have a material adverse effect on our business, financial condition, results of operations or cash flows.***

Outbreaks of epidemic, pandemic, or contagious diseases, such as the current novel coronavirus (“COVID-19”) pandemic or, historically, the Ebola virus, Middle East Respiratory Syndrome, Severe Acute Respiratory Syndrome or the H1N1 virus, could disrupt our business. Business disruptions could include disruptions or restrictions on our ability to conduct our clinical trials, as planned, travel, as well as temporary closures of the facilities of our collaboration partners, suppliers or contract manufacturers. Any disruption of our clinical trial operations, collaboration partners, suppliers or contract manufacturers could adversely impact our operating results.

Economic and health conditions related to the COVID-19 pandemic in the United States and across most of the globe remain uncertain and continue to evolve. While at this point, the extent to which the coronavirus outbreak may impact our results is uncertain, it could result in delays in the manufacture of tenapanor, or in the delivery of key intermediates or raw materials required to manufacture tenapanor or delays in clinical development activities by us, or our collaboration partners. It could also materially and negatively impact our ability, either alone, or with a collaboration partner, to successfully commercialize tenapanor, if approved for marketing and sale by the FDA or foreign regulatory authorities, including our ability to educate physicians and patients about the benefits, administration and use of tenapanor.

- As a result of the COVID-19 pandemic, we may also experience disruptions that could severely impact our business, preclinical studies and clinical trials, including:
- We have an ongoing Phase 2 clinical trial for RDX013, which may be delayed as a result the COVID-19 outbreak. Other potential impacts of the COVID-19 pandemic on our clinical trials include delays or difficulties in any planned clinical site initiation, including difficulties in obtaining Institutional Review Board approvals, recruiting clinical site investigators and clinical site staff, delays or difficulties in enrolling patients, interruption of planned key clinical trial activities, such as clinical trial site data monitoring due to diversion of resources at clinical sites or limitation on travel imposed by federal or state governments.
- We have limited the use of our offices to essential employees and requested that most of our personnel, including all of our administrative employees, work remotely. We have restricted on-site staff to only those personnel and contractors who must perform essential activities that must be completed on-site and limited the number of staff in our research laboratories. The COVID-19 pandemic could disrupt our ability to secure supplies for our facilities and to provide personal protective equipment for our employees. The safety, health and well-being of our workforce is of primary concern and we may need to enact further precautionary measures to help minimize the risk of our employees being exposed to the novel coronavirus.
- Our increased reliance on personnel working from home may negatively impact productivity, or disrupt, delay, or otherwise adversely impact our business. In addition, this could increase our cyber-security risk, create data accessibility concerns, and make us more susceptible to communication disruptions, any of which could adversely impact our business



operations or delay necessary interactions with local and federal regulators, ethics committees, manufacturing sites, research or clinical trial sites and important agencies and contractors.

- The FDA and comparable foreign regulatory agencies may continue to experience operational interruptions or delays, which may impact timelines for regulatory submission, trial initiation and regulatory approval.

The COVID-19 outbreak continues to rapidly evolve. The extent to which the outbreak may impact our business, manufacturing, preclinical development activities, preclinical studies and planned clinical trials will depend on future developments, which are highly uncertain and cannot be predicted with confidence, such as the ultimate geographic spread of COVID-19, the duration of the outbreak, travel restrictions and actions to contain the outbreak or treat its impact, such as social distancing and quarantines or lock-downs in the United States and other countries, business closures or business disruptions and the effectiveness of actions taken in the United States and other countries to contain and treat the disease.

***We may engage in strategic transactions that could impact our liquidity, increase our expenses and present significant distractions to our management.***

We may consider strategic transactions, such as acquisitions of companies, asset purchases, and/or in-licensing of products, product candidates or technologies. In addition, if we are unable to access capital on a timely basis and on terms that are acceptable to us, we may be forced to further restructure certain aspects of our business or identify and complete one or more strategic collaborations or other transactions in order to fund the development or commercialization of tenapanor and/or the development of RDX013 through the use of alternative structures. Additional potential transactions that we may consider include a variety of different business arrangements, including spin-offs, spin outs, collaboration partnerships, joint ventures, restructurings, divestitures, business combinations and investments. Any such transaction may require us to incur non-recurring or other charges, may increase our near- and long-term expenditures and may pose significant integration challenges or disrupt our management or business, which could adversely affect our operations and financial results. For example, these transactions may entail numerous operational and financial risks, including:

- up-front, milestone and royalty payments, equity investments and financial support of new research and development candidates including increase of personnel, all of which may be substantial;
- exposure to unknown liabilities;
- disruption of our business and diversion of our management's time and attention in order to develop acquired products, product candidates or technologies;
- incurrence of substantial debt or dilutive issuances of equity securities;
- higher-than-expected acquisition and integration costs;
- write-downs of assets or goodwill or impairment charges;
- increased amortization expenses;
- difficulty and cost in combining the operations and personnel of any acquired businesses with our operations and personnel;
- impairment of relationships with key suppliers or customers of any acquired businesses due to changes in management and ownership; and
- inability to retain key employees of any acquired businesses.

Accordingly, although there can be no assurance that we will undertake or successfully complete any transactions of the nature described above, any transactions that we do complete may be subject to the foregoing or other risks and could have a material adverse effect on our business, results of operations, financial condition and prospects.

***If we seek and obtain approval to commercialize our product candidates outside of the United States, manufacture our product candidates outside of the United States, or otherwise engage in business outside of the United States, a variety of risks associated with international operations could materially adversely affect our business.***



We or our collaboration partners may decide to seek marketing approval for certain of our product candidates outside the United States or otherwise engage in business outside the United States, including entering into contractual agreements with third-parties. We currently utilize contract manufacturing organizations located outside of the United States to manufacture our active drug substance for tenapanor. We are subject to additional risks related to entering these international business markets and relationships, including:

- different regulatory requirements for drug approvals in foreign countries;
- differing United States and foreign drug import and export rules;
- reduced protection for intellectual property rights in foreign countries;
- unexpected changes in tariffs, trade barriers and regulatory requirements;
- different reimbursement systems, and different competitive drugs;
- economic weakness, including inflation, or political instability in particular foreign economies and markets;
- compliance with tax, employment, immigration and labor laws for employees living or traveling abroad;
- foreign taxes, including withholding of payroll taxes;
- foreign currency fluctuations, which could result in increased operating expenses and reduced revenues, and other obligations incident to doing business in another country;
- workforce uncertainty in countries where labor unrest is more common than in the United States;
- production shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad;
- potential liability resulting from development work conducted by these distributors; and
- business interruptions resulting from geopolitical actions, including war and terrorism, or natural disasters.

***Our business involves the use of hazardous materials and we and third-parties with whom we contract must comply with environmental laws and regulations, which can be expensive and restrict how we do business.***

Our research and development activities involve the controlled storage, use and disposal of hazardous materials, including the components of our product candidates and other hazardous compounds. We and manufacturers and suppliers with whom we may contract are subject to laws and regulations governing the use, manufacture, storage, handling and disposal of these hazardous materials. In some cases, these hazardous materials and various wastes resulting from their use are stored at our and our manufacturers' facilities pending their use and disposal. We cannot eliminate the risk of contamination, which could cause an interruption of our commercialization efforts, research and development efforts and business operations, environmental damage resulting in costly clean-up and liabilities under applicable laws and regulations governing the use, storage, handling and disposal of these materials and specified waste products. We cannot guarantee that the safety procedures utilized by third-party manufacturers and suppliers with whom we may contract will comply with the standards prescribed by laws and regulations or will eliminate the risk of accidental contamination or injury from these materials. In such an event, we may be held liable for any resulting damages and such liability could exceed our resources and state or federal or other applicable authorities may curtail our use of certain materials and/or interrupt our business operations. Furthermore, environmental laws and regulations are complex, change frequently and have tended to become more stringent. We cannot predict the impact of such changes and cannot be certain of our future compliance. We do not currently carry biological or hazardous waste insurance coverage.

***We may be adversely affected by earthquakes or other natural disasters and our business continuity and disaster recovery plans may not adequately protect us from a serious disaster.***

We have dual headquarters and one of our facilities is located in the San Francisco Bay Area, which in the past has experienced severe earthquakes. We do not carry earthquake insurance. Earthquakes or other natural disasters could severely disrupt our operations, and have a material adverse effect on our business, results of operations, financial condition and prospects.

If a natural disaster, power outage or other event occurred that prevented us from using all or a significant portion of our California facility, that damaged critical infrastructure, such as our enterprise financial systems or manufacturing resource planning and enterprise quality systems, or that otherwise disrupted operations, it may be difficult or, in certain cases, impossible for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place currently are limited and are unlikely to prove adequate in the event of a serious disaster or similar event. We may incur substantial expenses as a result of the limited nature of our disaster recovery and business continuity plans, which, particularly when taken together with our lack of earthquake insurance, could have a material adverse effect on our business.

### **Risks Related to Government Regulation**

***The regulatory approval processes of the FDA and comparable foreign authorities are lengthy, time consuming and inherently unpredictable. If we are ultimately unable to obtain regulatory approval for our product candidates, our business will be substantially harmed.***

The research, testing, manufacturing, labeling, approval, selling, import, export, marketing and distribution of drug products are subject to extensive regulation by the FDA and other regulatory authorities in the United States and other countries, which regulations differ from country to country. Neither we nor any of our collaboration partners is permitted to market any drug product in the United States until we receive marketing approval from the FDA. Obtaining regulatory approval of a NDA can be a lengthy, expensive and uncertain process. In addition, failure to comply with FDA and other applicable United States and foreign regulatory requirements may subject us to administrative or judicially imposed sanctions or other actions, including:

- warning or untitled letters;
- civil and criminal penalties;
- injunctions;
- withdrawal of regulatory approval of products;
- product seizure or detention;
- product recalls;
- total or partial suspension of production; and
- refusal to approve pending NDAs or supplements to approved NDAs.

Prior to obtaining approval to commercialize a drug candidate in the United States or abroad, we or our collaboration partners must demonstrate with substantial evidence from well-controlled clinical trials, and to the satisfaction of the FDA or other foreign regulatory agencies, that such drug candidates are safe and effective for their intended uses. The number of nonclinical studies and clinical trials that will be required for FDA approval varies depending on the drug candidate, the disease or condition that the drug candidate is designed to address, and the regulations applicable to any particular drug candidate. Results from nonclinical studies and clinical trials can be interpreted in different ways. Even if we believe the nonclinical or clinical data for our drug candidates are promising, such data may not be sufficient to support approval by the FDA and other regulatory authorities. Administering drug candidates to humans may produce undesirable side effects, which could interrupt, delay or halt clinical trials and result in the FDA or other regulatory authorities denying approval of a drug candidate for any or all targeted indications.

The time required to obtain approval by the FDA and comparable foreign authorities is unpredictable, typically takes many years following the commencement of clinical studies and depends upon numerous factors. The FDA and comparable foreign authorities have substantial discretion in the approval process and we may encounter matters with the FDA or such comparable authorities that requires us to expend additional time and resources and delay or prevent the approval of our product candidates. For example, on July 28, 2021, we received a CRL from the FDA regarding our NDA for tenapanor for the Hyperphosphatemia Indication. According to the CRL, the FDA has determined that the magnitude of the treatment effect observed in our Phase 3 clinical trials was small and unclear of clinical significance. Additionally, in the CRL, the FDA noted that in order for the NDA to be approved, we will need to conduct an additional adequate and well-controlled trial demonstrating a clinically relevant treatment effect on serum phosphorus or an effect on the clinical outcome thought to be caused by hyperphosphatemia in adult patients with CKD on dialysis. The End of Review Meeting did not provide a reasonable path forward for resubmission or our

NDA, and as a result, we currently expect to submit a FDRR to raise our scientific disagreement above the Division level within CDER. There can be no assurances that the FDR process will result in approval of the NDA or another positive outcome. As a result, the regulatory approval process for our NDA is highly uncertain. We may not obtain approval at all, and if we are able to obtain approval, the expense and time to do so could adversely impact our ability to successfully commercialize tenapanor for the Hyperphosphatemia Indication, our business and our results of operations. Finally, approval policies, regulations or the type and amount of clinical data necessary to gain approval may change during the course of a product candidate's clinical development and may vary among jurisdictions, which may cause delays in the approval or result in a decision not to approve an application for regulatory approval. Despite the time and expense exerted, failure can occur at any stage.

Applications for our product candidates could fail to receive regulatory approval for many reasons, including but not limited to the following:

- the FDA or comparable foreign regulatory authorities may disagree with the design or implementation of our, or our collaboration partners', clinical studies;
- the population studied in the clinical program may not be sufficiently broad or representative to assure safety in the full population for which approval is sought;
- the FDA or comparable foreign regulatory authorities may disagree with the interpretation of data from preclinical studies or clinical studies;
- the data collected from clinical studies of our product candidates may not be sufficient to support the submission of a NDA or other submission or to obtain regulatory approval in the United States or elsewhere;
- we or our collaboration partners may be unable to demonstrate to the FDA or comparable foreign regulatory authorities that a product candidate's risk-benefit ratio for its proposed indication is acceptable;
- the FDA or comparable foreign regulatory authorities may fail to approve the manufacturing processes, test procedures and specifications, or facilities of third-party manufacturers responsible for clinical and commercial supplies; and
- the approval policies or regulations of the FDA or comparable foreign regulatory authorities may significantly change in a manner rendering our clinical data insufficient for approval.

This lengthy approval process, as well as the unpredictability of the results of clinical studies, may result in our failure and/or that of our collaboration partners to obtain regulatory approval to market any of our product candidates, which would significantly harm our business, results of operations, and prospects. Additionally, if the FDA requires that we conduct additional clinical studies, places limitations in our label, delays approval to market our product candidates or limits the use of our products, our business and results of operations may be harmed.

In addition, even if we were to obtain approval, regulatory authorities may approve any of our product candidates for fewer or more limited indications than we request, may not approve the price we intend to charge for our products, may grant approval contingent on the performance of costly post-marketing clinical trials, or may approve a product candidate with a label that does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate. Any of the foregoing scenarios could materially harm the commercial prospects for our product candidates.

***Even if we receive regulatory approval for a product candidate, we will be subject to ongoing regulatory obligations and continued regulatory review, which may result in significant additional expense. Additionally, any product candidates, if approved, could be subject to labeling and other restrictions and market withdrawal, and we may be subject to penalties if we fail to comply with regulatory requirements or experience unanticipated problems with our products.***

Even if a drug is approved by the FDA or foreign regulatory authorities, the manufacturing processes, labeling, packaging, distribution, pharmacovigilance, adverse event reporting, storage, advertising, promotion and recordkeeping for the product will be subject to extensive and ongoing regulatory requirements. These requirements include submissions of safety and other post-marketing information and reports, registration, as well as continued compliance with cGMPs and GCP regulations for any clinical trials that we conduct post-approval. As such, we and our third-party contract manufacturers will be subject to continual review and periodic inspections to assess compliance with regulatory requirements. Accordingly, we and others with whom we work must continue to expend time, money, and effort in all areas of regulatory compliance, including manufacturing, production, and quality control. Regulatory authorities may also impose significant restrictions on a product's indicated uses or

marketing or impose ongoing requirements for potentially costly post-marketing studies. Furthermore, any new legislation addressing drug safety issues could result in delays or increased costs to assure compliance.

We will also be required to report certain adverse reactions and production problems, if any, to the FDA, and to comply with requirements concerning advertising and promotion for our products. Promotional communications with respect to prescription drugs are subject to a variety of legal and regulatory restrictions and must be consistent with the information in the product's approved label. As such, we may not promote our products for indications or uses for which they do not have FDA approval.

Later discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency, or with our third-party manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may result in, among other things:

- warning or untitled letters, fines or holds on clinical trials;
- restrictions on the marketing or manufacturing of the product, withdrawal of the product from the market or voluntary or mandatory product recalls;
- injunctions or the imposition of civil or criminal penalties;
- suspension or revocation of existing regulatory approvals;
- suspension of any of our ongoing clinical trials;
- refusal to approve pending applications or supplements to approved applications submitted by us;
- restrictions on our or our contract manufacturers' operations; or
- product seizure or detention, or refusal to permit the import or export of products.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. Any failure to comply with ongoing regulatory requirements may significantly and adversely affect our ability to commercialize our product candidates. If regulatory sanctions are applied or if regulatory approval is withdrawn, the value of our company and our operating results will be adversely affected.

In addition, the FDA's policies may change, and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained, which would adversely affect our business, prospects and ability to achieve or sustain profitability.

We also cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative or executive action, either in the United States or abroad. For example, the results of the 2020 President election may impact our business and industry. Namely, the Trump administration took several executive actions, including the issuance of a number of Executive Orders, that could impose significant burdens on, or otherwise materially delay, the FDA's ability to engage in routine regulatory and oversight activities such as implementing statutes through rulemaking, issuance of guidance, and review and approval of marketing applications. It is difficult to predict whether or how these Executive Orders will be implemented, or whether they will be rescinded or replaced under a Biden Administration. The policies and priorities of an incoming administration are unknown, and could materially impact the regulatory framework governing our products.

***Disruptions at the FDA and other government agencies caused by funding shortages or global health concerns could hinder their ability to hire and retain key leadership and other personnel, or otherwise prevent new products and services from being developed or commercialized in a timely manner, which could negatively impact our business.***

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, ability to hire and retain key personnel and accept the payment of user fees, and statutory, regulatory, and policy changes. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of other government agencies that fund research and development activities is subject to the political process, which is inherently fluid and unpredictable.

Disruptions at the FDA and other agencies may also slow the time necessary for new drugs to be reviewed and/or approved by necessary government agencies, which would adversely affect our business. For example, over the last several years, including for 35 days beginning on December 22, 2018, the U.S. government has shut down several times and certain regulatory agencies, such as the FDA, have had to furlough critical FDA employees and stop critical activities. If a prolonged government shutdown occurs, it could significantly impact the ability of the FDA to timely review and process our regulatory submissions, which could have a material adverse effect on our business.

Separately, in response to the global COVID-19 pandemic, on March 10, 2020, the FDA announced its intention to postpone most foreign inspections of manufacturing facilities and products through April 2020, and subsequently, on March 18, 2020, the FDA temporarily postponed routine surveillance inspections of domestic manufacturing facilities. Subsequently, on July 10, 2020 the FDA announced its intention to resume certain on-site inspections of domestic manufacturing facilities subject to a risk-based prioritization system. The FDA intends to use this risk-based assessment system to identify the categories of regulatory activity that can occur within a given geographic area, ranging from mission critical inspections to resumption of all regulatory activities. Regulatory authorities outside the United States may adopt similar restrictions or other policy measures in response to the COVID-19 pandemic. If a prolonged government shutdown occurs, or if global health concerns continue to prevent the FDA or other regulatory authorities from conducting their regular inspections, reviews, or other regulatory activities, it could significantly impact the ability of the FDA or other regulatory authorities to timely review and process our regulatory submissions, which could have a material adverse effect on our business.

***We and our contract manufacturers are subject to significant regulation with respect to manufacturing our product candidates. The manufacturing facilities on which we rely may not continue to meet regulatory requirements or may not be able to meet supply demands.***

All entities involved in the preparation of product candidates for clinical studies or commercial sale, including our existing contract manufacturers for our product candidates are subject to extensive regulation. Components of a finished therapeutic product approved for commercial sale or used in late-stage clinical studies must be manufactured in accordance with cGMP regulations. These regulations govern manufacturing processes and procedures (including record keeping) and the implementation and operation of quality systems to control and assure the quality of investigational products and products approved for sale. Poor control of production processes can lead to the introduction of contaminants or to inadvertent changes in the properties or stability of our product candidates that may not be detectable in final product testing. We or our contract manufacturers must supply all necessary documentation in support of an NDA or comparable regulatory filing on a timely basis and must adhere to cGMP regulations enforced by the FDA and other regulatory agencies through their facilities inspection programs. The facilities and quality systems of some or all of our third-party contractors must pass a pre-approval inspection for compliance with the applicable regulations as a condition of regulatory approval of our product candidates. In addition, the regulatory authorities may, at any time, audit or inspect a manufacturing facility involved with the preparation of our product candidates or our other potential products or the associated quality systems for compliance with the regulations applicable to the activities being conducted. Although we oversee the contract manufacturers, we cannot control the manufacturing process of, and are completely dependent on, our contract manufacturing partners for compliance with the regulatory requirements. If these facilities do not pass a pre-approval plant inspection, regulatory approval of the products may not be granted or may be substantially delayed until any violations are corrected to the satisfaction of the regulatory authority, if ever. In addition, we have no control over the ability of our contract manufacturers to maintain adequate quality control, quality assurance and qualified personnel.

The regulatory authorities also may, at any time following approval of a product for sale, audit the manufacturing facilities of our third-party contractors. If any such inspection or audit identifies a failure to comply with applicable regulations or if a violation of our product specifications or applicable regulations occurs independent of such an inspection or audit, we or the relevant regulatory authority may require remedial measures that may be costly and/or time consuming for us or a third party to implement, and that may include the temporary or permanent suspension of a clinical study or commercial sales or the temporary or permanent suspension of production or closure of a facility. Any such remedial measures imposed upon us or third parties with whom we contract could materially harm our business.

If we or any of our third-party manufacturers fail to maintain regulatory compliance, the FDA or other applicable regulatory authority can impose regulatory sanctions including, among other things, refusal to approve a pending application for a new drug product, withdrawal of an approval, or suspension of production. As a result, our business, financial condition, and results of operations may be materially harmed.

Additionally, if supply from one approved manufacturer is interrupted, an alternative manufacturer would need to be qualified through an NDA, a supplemental NDA or equivalent foreign regulatory filing, which could result in further delay. The regulatory agencies may also require additional studies if a new manufacturer is relied upon for commercial production.

Switching manufacturers may involve substantial costs and is likely to result in a delay in our desired clinical and commercial timelines.

These factors could cause us to incur higher costs and could cause the delay or termination of clinical studies, regulatory submissions, required approvals, or commercialization of our product candidates. Furthermore, if our suppliers fail to meet contractual requirements and we are unable to secure one or more replacement suppliers capable of production at a substantially equivalent cost, our clinical studies may be delayed or we could lose potential revenue.

***If we fail to comply or are found to have failed to comply with FDA and other regulations related to the promotion of our products for unapproved uses, we could be subject to criminal penalties, substantial fines or other sanctions and damage awards.***

The regulations relating to the promotion of products for unapproved uses are complex and subject to substantial interpretation by the FDA and other government agencies. If tenapanor or our other product candidates receive marketing approval, we and our collaboration partners, if any, will be restricted from marketing the product outside of its approved labeling, also referred to as off-label promotion. However, physicians may nevertheless prescribe an approved product to their patients in a manner that is inconsistent with the approved label, which is an off-label use. We are implementing compliance and training programs designed to ensure that our sales and marketing practices comply with applicable regulations regarding off-label promotion. Notwithstanding these programs, the FDA or other government agencies may allege or find that our practices constitute prohibited promotion of our product candidates for unapproved uses. We also cannot be sure that our employees will comply with company policies and applicable regulations regarding the promotion of products for unapproved uses.

Over the past several years, a significant number of pharmaceutical and biotechnology companies have been the target of inquiries and investigations by various federal and state regulatory, investigative, prosecutorial and administrative entities in connection with the promotion of products for unapproved uses and other sales practices, including the Department of Justice and various U.S. Attorneys' Offices, the Office of Inspector General of the Department of Health and Human Services, the FDA, the Federal Trade Commission and various state Attorneys General offices. These investigations have alleged violations of various federal and state laws and regulations, including claims asserting antitrust violations, violations of the FFDCRA, the False Claims Act, the Prescription Drug Marketing Act, anti-kickback laws, and other alleged violations in connection with the promotion of products for unapproved uses, pricing and Medicare and/or Medicaid reimbursement. Many of these investigations originate as "qui tam" actions under the False Claims Act. Under the False Claims Act, any individual can bring a claim on behalf of the government alleging that a person or entity has presented a false claim, or caused a false claim to be submitted, to the government for payment. The person bringing a qui tam suit is entitled to a share of any recovery or settlement. Qui tam suits, also commonly referred to as "whistleblower suits," are often brought by current or former employees. In a qui tam suit, the government must decide whether to intervene and prosecute the case. If it declines, the individual may pursue the case alone.

If the FDA or any other governmental agency initiates an enforcement action against us or if we are the subject of a qui tam suit and it is determined that we violated prohibitions relating to the promotion of products for unapproved uses, we could be subject to substantial civil or criminal fines or damage awards and other sanctions such as consent decrees and corporate integrity agreements pursuant to which our activities would be subject to ongoing scrutiny and monitoring to ensure compliance with applicable laws and regulations. Any such fines, awards or other sanctions would have an adverse effect on our revenue, business, financial prospects and reputation.

***Tenapanor, which has been approved by the FDA for the treatment of IBS-C in adults, and/or RDX013, and our other product candidates, if approved, may cause or contribute to adverse medical events that we are required to report to regulatory agencies and if we fail to do so we could be subject to sanctions that would materially harm our business.***

Some participants in clinical studies of tenapanor have reported adverse effects after being treated with tenapanor, including diarrhea, nausea, flatulence, abdominal discomfort, abdominal pain, abdominal distention and changes in electrolytes. If we are successful in commercializing any products, FDA and foreign regulatory agency regulations require that we report certain information about adverse medical events if those products may have caused or contributed to those adverse events. The timing of our obligation to report would be triggered by the date we become aware of the adverse event as well as the nature of the event. We may fail to report adverse events we become aware of within the prescribed timeframe. We may also fail to appreciate that we have become aware of a reportable adverse event, especially if it is not reported to us as an adverse event or if it is an adverse event that is unexpected or removed in time from the use of our products. If we fail to comply with our reporting obligations, the FDA or a foreign regulatory agency could take action, including criminal prosecution, the imposition of civil monetary penalties, seizure of our products or delay in approval or clearance of future products.

***Our employees, independent contractors, principal investigators, CROs, collaboration partners, consultants and vendors may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements.***

We are exposed to the risk that our employees, independent contractors, principal investigators, CROs, collaboration partners, consultants and vendors may engage in fraudulent conduct or other illegal activity. Misconduct by these parties could include intentional, reckless and/or negligent conduct or unauthorized activities that violate any of the following: FDA regulations, including those laws that require the reporting of true, complete and accurate financial and other information to the FDA; manufacturing standards; or federal and state healthcare fraud and abuse laws and regulations. Specifically, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. These activities also include the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. It is not always possible to identify and deter misconduct by employees and other third parties, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with such laws or regulations. Additionally, we are subject to the risk that a person or government could allege such fraud or other misconduct, even if none occurred. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of significant civil, criminal and administrative penalties, damages, monetary fines, disgorgements, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs, individual imprisonment, other sanctions, contractual damages, reputational harm, diminished profits and future earnings, and curtailment of our operations, any of which could adversely affect our ability to operate our business and our results of operations.

***Failure to obtain regulatory approvals in foreign jurisdictions would prevent us from marketing our products internationally.***

In order to market any product in the EEA (which is composed of the 27 Member States of the European Union plus Norway, Iceland and Liechtenstein), and many other foreign jurisdictions, separate regulatory approvals are required. In the EEA, medicinal products can only be commercialized after obtaining a Marketing Authorization (“MA”). Before the MA is granted, the EMA or the competent authorities of the Member States of the EEA make an assessment of the risk-benefit balance of the product on the basis of scientific criteria concerning its quality, safety and efficacy.

The approval procedures vary among countries and can involve additional clinical testing, and the time required to obtain approval may differ from that required to obtain FDA approval. Clinical trials conducted in one country may not be accepted by regulatory authorities in other countries. Approval by the FDA does not ensure approval by regulatory authorities in other countries, and approval by one or more foreign regulatory authorities does not ensure approval by regulatory authorities in other foreign countries or by the FDA. However, a failure or delay in obtaining regulatory approval in one country may have a negative effect on the regulatory process in others. The foreign regulatory approval process may include all of the risks associated with obtaining FDA approval. We may not be able to file for regulatory approvals or to do so on a timely basis, and even if we do file we may not receive necessary approvals to commercialize our products in any market.

***We and our collaboration partners may be subject to healthcare laws, regulation and enforcement; our failure or the failure of any such collaboration partners to comply with these laws could have a material adverse effect on our results of operations and financial conditions.***

Although we do not currently have any products on the market, once we begin commercializing our products, we and our collaboration partners may be subject to additional healthcare statutory and regulatory requirements and enforcement by the federal government and the states and foreign governments in which we conduct our business. The laws that may affect our ability to operate as a commercial organization include:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs. A person or entity does not need to have actual knowledge of this statute or specific intent to violate it in order to have committed a violation;
- federal false claims laws which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other third-party payors that are false or fraudulent. In



addition, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the false claims statutes;

- the federal Civil Monetary Penalties law, which prohibits, among other things, offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier;
- federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of these statutes or specific intent to violate them in order to have committed a violation;
- the federal physician sunshine requirements under the ACA, which requires manufacturers of drugs, devices, biologics, and medical supplies to report annually to CMS information related to payments and other transfers of value to physicians, certain other healthcare providers beginning in 2022, and teaching hospitals, and ownership and investment interests held by physicians and other healthcare providers and their immediate family members;
- state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers;
- state laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the applicable compliance guidance promulgated by the federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources;
- state laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or pricing information and marketing expenditures; and
- European and other foreign law equivalents of each of the laws, including reporting requirements detailing interactions with and payments to healthcare providers.

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws. The risk of our being found in violation of these laws is increased by the fact that many of them have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of the laws described above or any other governmental laws and regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, the curtailment or restructuring of our operations, the exclusion from participation in federal and state healthcare programs and imprisonment, any of which could adversely affect our ability to market our products and adversely impact our financial results.

***Legislative or regulatory healthcare reforms in the United States may make it more difficult and costly for us to obtain regulatory clearance or approval of our product candidates and to produce, market and distribute our products after clearance or approval is obtained.***

From time to time, legislation is drafted and introduced in Congress that could significantly change the statutory provisions governing the regulatory clearance or approval, manufacture, and marketing of regulated products or the reimbursement thereof. In addition, FDA regulations and guidance are often revised or reinterpreted by the FDA in ways that may significantly affect our business and our products. Any new regulations or revisions or reinterpretations of existing regulations may impose additional costs or lengthen review times of our product candidates. We cannot determine what effect changes in regulations, statutes, legal interpretation or policies, when and if promulgated, enacted or adopted may have on our business in the future. Such changes could, among other things, require:

- additional clinical trials to be conducted prior to obtaining approval;
- changes to manufacturing methods;
- recall, replacement, or discontinuance of one or more of our products; and
- additional record keeping.



Each of these would likely entail substantial time and cost and could materially harm our business and our financial results. In addition, delays in receipt of or failure to receive regulatory clearances or approvals for any future products would harm our business, financial condition and results of operations.

In addition, the full impact of recent healthcare reform and other changes in the healthcare industry and in healthcare spending is currently unknown, and may adversely affect our business model. In the United States, the ACA was enacted in 2010 with a goal of reducing the cost of healthcare and substantially changing the way healthcare is financed by both government and private insurers. The ACA, among other things, increased the minimum Medicaid rebates owed by manufacturers under the Medicaid Drug Rebate Program and extended the rebate program to individuals enrolled in Medicaid managed care organizations, established annual fees and taxes on manufacturers of certain branded prescription drugs, and created a new Medicare Part D coverage gap discount program, in which manufacturers must now agree to offer 70% point-of-sale discounts off negotiated prices of applicable brand drugs to eligible beneficiaries during their coverage gap period as a condition for the manufacturer's outpatient drugs to be covered under Medicare Part D.

Since its enactment, there have been judicial, executive and Congressional challenges to certain aspects of the ACA. By way of example, the Tax Cuts and Jobs Act of 2017 included a provision repealing, the tax-based shared responsibility payment imposed by the ACA on certain individuals who fail to maintain qualifying health coverage for all or part of a year that is commonly referred to as the "individual mandate." On December 14, 2018, a U.S. District Court Judge in the Northern District of Texas, ruled that the individual mandate is a critical and inseparable feature of the ACA, and therefore, because it was repealed as part of the Tax Cuts and Jobs Act, the remaining provisions of the ACA are invalid as well. On December 18, 2019, the U.S. Court of Appeals for the 5th Circuit upheld the District Court's decision that the individual mandate was unconstitutional but remanded the case back to the District Court to determine whether the remaining provisions of the ACA are invalid as well. The Supreme Court heard argument on this case on November 10, 2020. On February 10, 2021, the Department of Justice notified the Court of the federal government's change in position from that presented in its brief on the merits filed in the case. It is unclear how the Supreme Court will rule. It is also unclear how other efforts, if any, to challenge, repeal, or replace the ACA will impact the ACA or our business. We cannot predict the reform initiatives that may be adopted in the future or whether initiatives that have been adopted will be repealed or modified. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare may adversely affect the demand for any drug products for which we may obtain regulatory approval, our ability to set a price that we believe is fair for our products, our ability to obtain coverage and reimbursement approval for a product, our ability to generate revenues and achieve or maintain profitability, and the level of taxes that we are required to pay.

Other legislative changes have been proposed and adopted in the United States since the ACA was enacted. These new laws, among other things, included aggregate reductions of Medicare payments of 2% per fiscal year to providers that will remain in effect through 2030, with the exception of a temporary suspension from May 1, 2020 through December 31, 2020, unless additional action is taken by Congress, additional specific reductions in Medicare payments to several types of providers, including hospitals, imaging centers and cancer treatment centers, and an increase in the statute of limitations period for the government to recover overpayments to providers from three to five years. Additionally, individual states have become increasingly active in passing legislation and implementing regulations designed to control pharmaceutical product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access, and to encourage importation from other countries and bulk purchasing. Recently, there has also been heightened governmental scrutiny over the manner in which drug manufacturers set prices for their marketed products, which has resulted in several Congressional inquiries and proposed bills designed to, among other things, bring more transparency to product pricing, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drug products.

### **Risks Related to Intellectual Property**

***We may become subject to claims alleging infringement of third parties' patents or proprietary rights and/or claims seeking to invalidate our patents, which would be costly, time consuming and, if successfully asserted against us, delay or prevent the development and commercialization of tenapanor or our other product candidates.***

There have been many lawsuits and other proceedings asserting infringement or misappropriation of patents and other intellectual property rights in the pharmaceutical and biotechnology industries. There can be no assurances that we will not be subject to claims alleging that the manufacture, use or sale of tenapanor or any other product candidates infringes existing or future third-party patents, or that such claims, if any, will not be successful. Because patent applications can take many years to issue and may be confidential for 18 months or more after filing, and because pending patent claims can be revised before issuance, there may be applications now pending which may later result in issued patents that may be infringed by the manufacture, use or sale of tenapanor or other product candidates. Moreover, we may face patent infringement claims from

non-practicing entities that have no relevant product revenue and against whom our own patent portfolio may thus have no deterrent effect. We may be unaware of one or more issued patents that would be infringed by the manufacture, sale or use of tenapanor or our other product candidates.

We may be subject to third-party patent infringement claims in the future against us or our that would cause us to incur substantial expenses and, if successful against us, could cause us to pay substantial damages, including treble damages and attorney's fees if we are found to be willfully infringing a third party's patents. We may be required to indemnify future collaboration partners against such claims. We are not aware of any threatened or pending claims related to these matters, but in the future litigation may be necessary to defend against such claims. If a patent infringement suit were brought against us we could be forced to stop or delay development, manufacturing or sales of the product or product candidate that is the subject of the suit. As a result of patent infringement claims, or in order to avoid potential claims, we may choose to seek, or be required to seek, a license from the third party and would most likely be required to pay license fees or royalties or both. These licenses may not be available on acceptable terms, or at all. Even if we were able to obtain a license, we may be unable to maintain such licenses and the rights may be nonexclusive, which would give our competitors access to the same intellectual property. Ultimately, we could be prevented from commercializing a product, or forced to redesign it if, as a result of actual or threatened patent infringement claims, we are unable to enter into licenses on acceptable terms, or unable to maintain such licenses when granted. Even if we are successful in defending against such claims, such litigation can be expensive and time consuming to litigate and would divert management's attention from our core business. Any of these events could harm our business significantly.

In addition to infringement claims against us, if third parties prepare and file patent applications in the United States that also claim technology similar or identical to ours, we may have to participate in interference or derivation proceedings in the United States Patent and Trademark Office (the "USPTO") to determine which party is entitled to a patent on the disputed invention. We may also become involved in similar opposition proceedings in the European Patent Office or similar offices in other jurisdictions regarding our intellectual property rights with respect to our products and technology. Since patent applications are confidential for a period of time after filing, we cannot be certain that we were the first to file any patent application related to our product candidates.

***If our intellectual property related to our product candidates is not adequate or if we are not able to protect our trade secrets or our confidential information, we may not be able to compete effectively in our market.***

We rely upon a combination of patents, trade secret protection and confidentiality agreements to protect the intellectual property related to our product candidates, our drug discovery and development platform and our development programs. Any disclosure to or misappropriation by third parties of our confidential or proprietary information could enable competitors to quickly duplicate or surpass our technological achievements, thus eroding our competitive position in our market.

The strength of patents in the biotechnology and pharmaceutical field involves complex legal and scientific questions and can be uncertain. The patent applications that we own or license may fail to result in issued patents in the United States or in foreign countries. Additionally, our research and development efforts may result in product candidates for which patent protection is limited or not available. Even if patents do successfully issue, third parties may challenge the validity, enforceability or scope thereof, which may result in such patents being narrowed, invalidated or held unenforceable. For example, U.S. patents can be challenged by any person before the new USPTO Patent Trial and Appeals Board at any time before one year after that person is served an infringement complaint based on the patents. Patents granted by the European Patent Office may be similarly opposed by any person within nine months from the publication of the grant. Similar proceedings are available in other jurisdictions, and in the United States, Europe and other jurisdictions third parties can raise questions of validity with a patent office even before a patent has granted. Furthermore, even if they are unchallenged, our patents and patent applications may not adequately protect our intellectual property or prevent others from designing around our claims. For example, a third party may develop a competitive product that provides therapeutic benefits similar to one or more of our product candidates but has a sufficiently different composition to fall outside the scope of our patent protection. If the breadth or strength of protection provided by the patents and patent applications we hold or pursue with respect to our product candidates is successfully challenged, then our ability to commercialize such product candidates could be negatively affected, and we may face unexpected competition that could have a material adverse impact on our business. Further, if we encounter delays in our clinical trials, the period of time during which we or our collaboration partners could market tenapanor or other product candidates under patent protection would be reduced.

Even where laws provide protection, costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and the outcome of such litigation would be uncertain. If we or one of our collaboration partners were to initiate legal proceedings against a third party to enforce a patent covering the product candidate, the defendant could counterclaim that our patent is invalid and/or unenforceable. In patent litigation in the United States, defendant counterclaims

alleging invalidity and/or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness or non-enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld relevant information from the USPTO, or made a misleading statement, during prosecution. The outcome following legal assertions of invalidity and unenforceability is unpredictable. With respect to validity, for example, we cannot be certain that there is no invalidating prior art, of which we and the patent examiner were unaware during prosecution. If a defendant were to prevail on a legal assertion of invalidity and/or unenforceability against our intellectual property related to a product candidate, we would lose at least part, and perhaps all, of the patent protection on such product candidate. Such a loss of patent protection would have a material adverse impact on our business. Moreover, our competitors could counterclaim that we infringe their intellectual property, and some of our competitors have substantially greater intellectual property portfolios than we do.

We also rely on trade secret protection and confidentiality agreements to protect proprietary know-how that may not be patentable, processes for which patents may be difficult to obtain and/or enforce and any other elements of our drug discovery and development processes that involve proprietary know-how, information or technology that is not covered by patents. Although we require all of our employees, consultants, advisors and any third parties who have access to our proprietary know-how, information or technology, to assign their inventions to us, and endeavor to execute confidentiality agreements with all such parties, we cannot be certain that we have executed such agreements with all parties who may have helped to develop our intellectual property or who had access to our proprietary information, nor can we be certain that our agreements will not be breached by such consultants, advisors or third parties, or by our former employees. The breach of such agreements by individuals or entities who are actively involved in the discovery and design of our potential drug candidates, or in the development of our discovery and design platform, including APECCS, could require us to pursue legal action to protect our trade secrets and confidential information, which would be expensive, and the outcome of which would be unpredictable. If we are not successful in prohibiting the continued breach of such agreements, our business could be negatively impacted. We cannot guarantee that our trade secrets and other confidential proprietary information will not be disclosed or that competitors will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques.

Further, the laws of some foreign countries do not protect proprietary rights to the same extent or in the same manner as the laws of the United States. As a result, we may encounter significant problems in protecting and defending our intellectual property both in the United States and abroad. If we are unable to prevent material disclosure of the intellectual property related to our technologies to third parties, we will not be able to establish or maintain a competitive advantage in our market, which could materially adversely affect our business, results of operations and financial condition.

***If we do not obtain patent term extension in the United States under the Hatch-Waxman Act and in foreign countries under similar legislation, thereby potentially extending the term of marketing exclusivity for our product candidates, our business may be materially harmed.***

Following the approval by the FDA for our NDA to market tenapanor for IBS-C, we became eligible to seek and sought patent term restoration under the Hatch-Waxman Act for one of the U.S. patents covering our approved product or the use thereof. The Hatch-Waxman Act allows a maximum of one patent to be extended per FDA approved product. Patent term extension also may be available in certain foreign countries upon regulatory approval of our product candidates. Despite seeking patent term extension for tenapanor or other product candidates, we may not be granted patent term extension either in the United States or in any foreign country because of, for example, failing to apply within applicable deadlines, failing to apply prior to expiration of relevant patents or otherwise failing to satisfy applicable requirements. Moreover, the term of extension, as well as the scope of patent protection during any such extension, afforded by the governmental authority could be less than we request.

If we are unable to obtain patent term extension or restoration, or the term of any such extension is less than we request, the period during which we will have the right to exclusively market our product will be shortened and our competitors may obtain approval of competing products following our patent expiration, and our revenue could be reduced, possibly materially.

***Obtaining and maintaining our patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.***

The USPTO and various foreign patent agencies require compliance with a number of procedural, documentary, fee payment and other provisions to maintain patent applications and issued patents. Noncompliance with these requirements can result in abandonment or lapse of a patent or patent application, resulting in partial or complete loss of patent rights in the

relevant jurisdiction. In such an event, competitors might be able to enter the market earlier than would otherwise have been the case.

***We may not be able to enforce our intellectual property rights throughout the world.***

The laws of some foreign countries do not protect intellectual property rights to the same extent as the laws of the United States. Many companies have encountered significant problems in protecting and defending intellectual property rights in certain foreign jurisdictions. The legal systems of some countries, particularly developing countries, do not favor the enforcement of patents and other intellectual property protection, especially those relating to life sciences. This could make it difficult for us to stop the infringement of our patents or the misappropriation of our other intellectual property rights. For example, many foreign countries have compulsory licensing laws under which a patent owner must grant licenses to third parties.

Proceedings to enforce our patent rights in foreign jurisdictions, whether or not successful, could result in substantial costs and divert our efforts and attention from other aspects of our business. Furthermore, while we intend to protect our intellectual property rights in our expected significant markets, we cannot ensure that we will be able to initiate or maintain similar efforts in all jurisdictions in which we may wish to market our products. Accordingly, our efforts to protect our intellectual property rights in such countries may be inadequate. In addition, changes in the law and legal decisions by courts in the United States and foreign countries may affect our ability to obtain and enforce adequate intellectual property protection for our technology.

***We may be subject to claims that we or our employees have misappropriated the intellectual property, including know-how or trade secrets, of a third party, or claiming ownership of what we regard as our own intellectual property.***

Many of our employees, consultants and contractors were previously employed at or engaged by other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Some of these employees, consultants and contractors, executed proprietary rights, non-disclosure and non-competition agreements in connection with such previous employment. Although we try to ensure that our employees, consultants and contractors do not use the intellectual property and other proprietary information or know-how or trade secrets of others in their work for us, and do not perform work for us that is in conflict with their obligations to another employer or any other entity, we may be subject to claims that we or these employees, consultants and contractors have used or disclosed such intellectual property, including know-how, trade secrets or other proprietary information. In addition, an employee, advisor or consultant who performs work for us may have obligations to a third party that are in conflict with their obligations to us, and as a result such third party may claim an ownership interest in the intellectual property arising out of work performed for us. We are not aware of any threatened or pending claims related to these matters, but in the future litigation may be necessary to defend against such claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel, or access to consultants and contractors. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management.

In addition, while we typically require our employees, consultants and contractors who may be involved in the development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who in fact develops intellectual property that we regard as our own, which may result in claims by or against us related to the ownership of such intellectual property. If we fail in prosecuting or defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights. Even if we are successful in prosecuting or defending against such claims, litigation could result in substantial costs and be a distraction to our management and scientific personnel.

**Risks Related to Our Common Stock**

***Our stock price may be volatile and our stockholders may not be able to resell shares of our common stock at or above the price they paid.***

The trading price of our common stock is highly volatile and could be subject to wide fluctuations in response to various factors, some of which are beyond our control. These factors include those discussed in this “Risk Factors” section and others such as:

- announcements of regulatory decisions regarding our NDA seeking marketing approval for tenapanor for the Hyperphosphatemia Indication;

- results of regulatory inspections of our facilities or those of our contract manufacturing organizations, or specific label restrictions or patient populations for tenapanor’s use, or changes or delays in the regulatory review process;
- announcements regarding whether tenapanor, alone or with other oral only medications, will be included in the bundled prospective payment system for the treatment of ESRD patients, and the time and manner in which such transition is achieved;
- results from, or any delays in, our RDX013 Phase 2 clinical trial;
- announcements relating to our current or future collaboration partnerships;
- announcements of therapeutic innovations or new products by us or our competitors;
- adverse actions taken by regulatory agencies with respect to our product label, our clinical trials, manufacturing supply chain or sales and marketing activities;
- changes or developments in laws or regulations applicable to our approved products or our product candidates;
- the success of our testing and clinical trials;
- failure to meet any of our projected timelines or goals with regard to the clinical development and commercialization of any of our product candidates;
- the success of our efforts to acquire or license or discover additional product candidates;
- any intellectual property infringement actions in which we may become involved;
- the success of our efforts to obtain adequate intellectual property protection for our product candidates;
- announcements concerning our competitors or the pharmaceutical industry in general;
- achievement of expected product sales and profitability;
- manufacture, supply or distribution shortages;
- actual or anticipated fluctuations in our operating results;
- FDA or other U.S. or foreign regulatory actions affecting us or our industry or other healthcare reform measures in the United States;
- changes in financial estimates or recommendations by securities analysts;
- trading volume of our common stock;
- sales of our common stock by us, our executive officers and directors or our stockholders in the future;
- sales of debt securities and sales or licensing of assets;
- general economic and market conditions and overall fluctuations in the United States equity markets; and
- the loss of any of our key scientific or management personnel.

In addition, the stock markets in general, and the markets for pharmaceutical, biopharmaceutical and biotechnology stocks in particular, have experienced extreme volatility that may have been unrelated to the operating performance of the issuer. These broad market fluctuations may adversely affect the trading price or liquidity of our common stock. In the past, when the market price of a stock has been volatile, holders of that stock have sometimes instituted securities class action litigation against the issuer. If any of our stockholders were to bring such a lawsuit against us, we could incur substantial costs defending the lawsuit and the attention of our management would be diverted from the operation of our business, which could seriously harm our financial position. Any adverse determination in litigation could also subject us to significant liabilities.

***Our principal stockholders own a significant percentage of our stock and, together with our management, will be able to exert significant control over matters subject to stockholder approval.***

Based on the number of shares outstanding as of September 30, 2021, our officers, directors and stockholders who hold at least 5% of our stock together beneficially own approximately 38.2% of our outstanding common stock. If these officers, directors, and principal stockholders or a group of our principal stockholders act together, they will be able to exert a significant degree of influence over our management and affairs and control matters requiring stockholder approval, including the election of directors, amendments to our organizational documents, and approval of any merger, sale of assets or other business combination transactions. The interests of this concentration of ownership may not always coincide with our interests or the interests of other stockholders. For instance, officers, directors and principal stockholders, acting together, could cause us to enter into transactions or agreements that we would not otherwise consider. Similarly, this concentration of ownership may have the effect of delaying or preventing a change in control of our company otherwise favored by our other stockholders.

***Sales of a substantial number of shares of our common stock in the public market could cause our stock price to fall.***

If our existing stockholders sell, or indicate an intention to sell, substantial amounts of our common stock in the public market, the trading price of our common stock could decline. As of September 30, 2021, we had approximately 106.8 million shares of common stock outstanding. Of those shares, approximately 37.5 million were held by current directors, executive officers and stockholders owning 5% or more of our outstanding common stock.

As of September 30, 2021, 0.8 million shares of common stock issuable upon vesting of outstanding restricted stock units and approximately 11.4 million shares of common stock issuable upon exercise of outstanding options were eligible for sale in the public market to the extent permitted by the provisions of the applicable vesting schedules, and Rule 144 and Rule 701 under the Securities Act. If these additional shares of common stock are issued and sold, or if it is perceived that they will be sold, in the public market, the trading price of our common stock could decline.

***If we sell shares of our common stock in future financings, stockholders may experience immediate dilution and, as a result, our stock price may decline.***

We may from time to time issue additional shares of common stock at a discount from the current trading price of our common stock. As a result, our stockholders would experience immediate dilution upon the purchase of any shares of our common stock sold at such discount. In addition, as opportunities present themselves, we may enter into financing or similar arrangements in the future, including the issuance of debt securities, preferred stock or common stock. If we issue common stock or securities convertible into common stock, our common stockholders would experience additional dilution and, as a result, our stock price may decline.

## **General Risk Factors**

***We incur significant costs as a result of operating as a public company, and our management will devote substantial time to new compliance initiatives. We may fail to comply with the rules that apply to public companies, including Section 404 of the Sarbanes-Oxley Act of 2002, which could result in sanctions or other penalties that would harm our business.***

We incur significant legal, accounting and other expenses as a public company, including costs resulting from public company reporting obligations under the Securities Exchange Act of 1934, as amended (the “Exchange Act”) and regulations regarding corporate governance practices. The listing requirements of The Nasdaq Global Market require that we satisfy certain corporate governance requirements relating to director independence, distributing annual and interim reports, stockholder meetings, approvals and voting, soliciting proxies, conflicts of interest and a code of conduct. Our management and other personnel will need to devote a substantial amount of time to ensure that we comply with all of these requirements. Moreover, the reporting requirements, rules and regulations will increase our legal and financial compliance costs and will make some activities more time consuming and costly. Any changes we make to comply with these obligations may not be sufficient to allow us to satisfy our obligations as a public company on a timely basis, or at all. These reporting requirements, rules and regulations, coupled with the increase in potential litigation exposure associated with being a public company, could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors or board committees or to serve as executive officers, or to obtain certain types of insurance, including directors’ and officers’ insurance, on acceptable terms.

We are subject to Section 404 of The Sarbanes-Oxley Act of 2002 (“Section 404”) and the related rules of the Securities and Exchange Commission (“SEC”) which require, among other things, our management to report on the effectiveness of our internal control over financial reporting. Our compliance with Section 404 requires that we incur substantial expense and expend significant management efforts.

During the course of our review and testing of our internal controls, we may identify deficiencies and be unable to remediate them before we must provide the required reports. Furthermore, if we have a material weakness in our internal controls over financial reporting, we may not detect errors on a timely basis and our financial statements may be materially misstated. We or our independent registered public accounting firm may not be able to conclude on an ongoing basis that we have effective internal control over financial reporting, which could harm our operating results, cause investors to lose confidence in our reported financial information and cause the trading price of our stock to fall. In addition, as a public company we are required to file accurate and timely quarterly and annual reports with the SEC under the Exchange Act. Any failure to report our financial results on an accurate and timely basis could result in sanctions, lawsuits, delisting of our shares from The Nasdaq Global Market or other adverse consequences that would materially harm our business.

***We may be adversely affected by the global economic environment.***

Our ability to attract and retain collaboration partners or customers, invest in and grow our business and meet our financial obligations depends on our operating and financial performance, which, in turn, is subject to numerous factors, including the prevailing economic conditions and financial, business and other factors beyond our control, such as the rate of unemployment, the number of uninsured persons in the United States, presidential elections, other political influences and inflationary pressures. Our results of operations could be adversely affected by general conditions in the global economy and in the global financial markets. The 2008 global financial crisis caused extreme volatility and disruptions in the capital and credit markets. We cannot anticipate all the ways in which the global economic climate and global financial market conditions could adversely impact our business in the future.

We are exposed to risks associated with reduced profitability and the potential financial instability of our collaboration partners or customers, many of which may be adversely affected by volatile conditions in the financial markets. For example, unemployment and underemployment, and the resultant loss of insurance, may decrease the demand for healthcare services and pharmaceuticals. If fewer patients are seeking medical care because they do not have insurance coverage, our collaboration partners or customers may experience reductions in revenues, profitability and/or cash flow that could lead them to reduce their support of our programs or financing activities. If collaboration partners or customers are not successful in generating sufficient revenue or are precluded from securing financing, they may not be able to pay, or may delay payment of, accounts receivable that are owed to us. In addition, volatility in the financial markets could cause significant fluctuations in the interest rate and currency markets. We currently do not hedge for these risks. The foregoing events, in turn, could adversely affect our financial condition and liquidity. In addition, if economic challenges in the United States result in widespread and prolonged unemployment, either regionally or on a national basis, or if certain provisions of the Patient Protection and ACA, as amended by the Health Care and Education Reconciliation Act, collectively known as the ACA, are repealed, a substantial number of people may become uninsured or underinsured. To the extent economic challenges result in fewer individuals pursuing or being able to afford our product candidates once commercialized, our business, results of operations, financial condition and cash flows could be adversely affected.

***Provisions in our charter documents and under Delaware law could discourage a takeover that stockholders may consider favorable and may lead to entrenchment of management.***

Our amended and restated certificate of incorporation and amended and restated bylaws contain provisions that could significantly reduce the value of our shares to a potential acquirer or delay or prevent changes in control or changes in our management without the consent of our board of directors. The provisions in our charter documents include the following:

- a classified board of directors with three-year staggered terms, which may delay the ability of stockholders to change the membership of a majority of our board of directors;
- no cumulative voting in the election of directors, which limits the ability of minority stockholders to elect director candidates;
- the exclusive right of our board of directors to elect a director to fill a vacancy created by the expansion of the board of directors or the resignation, death or removal of a director, which prevents stockholders from being able to fill vacancies on our board of directors;
- the required approval of at least two-thirds of the shares entitled to vote to remove a director for cause, and the prohibition on removal of directors without cause;



- the ability of our board of directors to authorize the issuance of shares of preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquirer;
- the ability of our board of directors to alter our bylaws without obtaining stockholder approval;
- the required approval of at least two-thirds of the shares entitled to vote at an election of directors to adopt, amend or repeal our bylaws or repeal the provisions of our amended and restated certificate of incorporation regarding the election and removal of directors;
- a prohibition on stockholder action by written consent, which forces stockholder action to be taken at an annual or special meeting of our stockholders;
- the requirement that a special meeting of stockholders may be called only by the chairman of the board of directors, the chief executive officer, the president or the board of directors, which may delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors; and
- advance notice procedures that stockholders must comply with in order to nominate candidates to our board of directors or to propose matters to be acted upon at a stockholders' meeting, which may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of us.

In addition, these provisions would apply even if we were to receive an offer that some stockholders may consider beneficial.

We are also subject to the anti-takeover provisions contained in Section 203 of the Delaware General Corporation Law. Under Section 203, a corporation may not, in general, engage in a business combination with any holder of 15% or more of its capital stock unless the holder has held the stock for three years or, among other exceptions, the board of directors has approved the transaction.

***Claims for indemnification by our directors and officers may reduce our available funds to satisfy successful third-party claims against us and may reduce the amount of money available to us.***

Our amended and restated certificate of incorporation and amended and restated bylaws provide that we will indemnify our directors and officers, in each case to the fullest extent permitted by Delaware law.

In addition, as permitted by Section 145 of the Delaware General Corporation Law, our amended and restated bylaws and our indemnification agreements that we have entered into with our directors and officers provide that:

- We will indemnify our directors and officers for serving us in those capacities or for serving other business enterprises at our request, to the fullest extent permitted by Delaware law. Delaware law provides that a corporation may indemnify such person if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the registrant and, with respect to any criminal proceeding, had no reasonable cause to believe such person's conduct was unlawful.
- We may, in our discretion, indemnify employees and agents in those circumstances where indemnification is permitted by applicable law.
- We are required to advance expenses, as incurred, to our directors and officers in connection with defending a proceeding, except that such directors or officers shall undertake to repay such advances if it is ultimately determined that such person is not entitled to indemnification.
- We will not be obligated pursuant to our amended and restated bylaws to indemnify a person with respect to proceedings initiated by that person against us or our other indemnities, except with respect to proceedings authorized by our board of directors or brought to enforce a right to indemnification.
- The rights conferred in our amended and restated bylaws are not exclusive, and we are authorized to enter into indemnification agreements with our directors, officers, employees and agents and to obtain insurance to indemnify such persons.



- We may not retroactively amend our amended and restated bylaw provisions to reduce our indemnification obligations to directors, officers, employees and agents.

***We do not currently intend to pay dividends on our common stock, and, consequently, our stockholders' ability to achieve a return on their investment will depend on appreciation in the price of our common stock.***

We do not currently intend to pay any cash dividends on our common stock for the foreseeable future. We currently intend to invest our future earnings, if any, to fund our growth. Additionally, the terms of our loan and security agreements could restrict our ability to pay dividends. Therefore, our stockholders are not likely to receive any dividends on our common stock for the foreseeable future. Since we do not intend to pay dividends, our stockholders' ability to receive a return on their investment will depend on any future appreciation in the market value of our common stock. There is no guarantee that our common stock will appreciate or even maintain the price at which our holders have purchased it.

***The United Kingdom's withdrawal from the European Union may have a negative effect on global economic conditions, financial markets and our business.***

Following a national referendum and enactment of legislation by the government of the United Kingdom, the United Kingdom formally withdrew from the European Union and ratified a trade and cooperation agreement governing its future relationship with the European Union. The agreement, which is being applied provisionally from January 1, 2021 until it is ratified by the European Parliament and the Council of the European Union, addresses trade, economic arrangements, law enforcement, judicial cooperation and a governance framework including procedures for dispute resolution, among other things. Because the agreement merely sets forth a framework in many respects and will require complex additional bilateral negotiations between the United Kingdom and the European Union as both parties continue to work on the rules for implementation, significant political and economic uncertainty remains about how the precise terms of the relationship between the parties will differ from the terms before withdrawal.

These developments, or the perception that any related developments could occur, have had and may continue to have a material adverse effect on global economic conditions and financial markets, and may significantly reduce global market liquidity, restrict the ability of key market participants to operate in certain financial markets or restrict our access to capital. Any of these factors could have a material adverse effect on our business, financial condition and results of operations and reduce the price of our common stock.

## **ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS**

Effective May 16, 2018, we entered into a loan and security agreement (as amended on October 9, 2020, March 1, 2021, May 5, 2021, and July 29, 2021) pursuant to which the Lenders agreed to provide us a \$50.0 million term loan facility. Covenants in the loan and security agreement limit our ability to pay dividends or make other distributions. For additional information refer to "NOTE 5. BORROWING" in the notes to our unaudited condensed financial statements in Part I, Item 1, *Notes to Condensed Financial Statements*, of this Quarterly Report on Form 10-Q.

### ***Unregistered Sales of Equity Securities***

None.

### ***Use of Proceeds***

Not applicable.

### ***Purchases of Equity Securities by the Issuer and Affiliated Purchasers***

None.

## **ITEM 3. DEFAULTS UPON SENIOR SECURITIES**

Not applicable.

## **ITEM 4. MINE SAFETY DISCLOSURES**

Not applicable.

**ITEM 5. OTHER INFORMATION**

In connection with the restructuring initiated in October 2021, we will be eliminating all of our research personnel and our research capabilities and are transitioning to a commercially focused organization. Our research personnel comprised a significant portion of our headcount presence in Fremont, California. As a result, our Board has determined to designate Waltham, Massachusetts, where the majority of our executive management team are located and where our commercial team reports, as our sole headquarters.

**ITEM 6. Exhibits**

Exhibit Number	Exhibit Description	Incorporated by Reference			
		Form	Date	Number	Filed Herewith
10.1	<a href="#">Fourth Amendment to the Loan and Security Agreement, dated as of July 29, 2021, by and among Ardelyx, Inc., Solar Capital Ltd. and the lenders party thereto.</a>	8-K	7/30/2021	10.1	
10.2	<a href="#">Open Market Sales Agreement dated August 13, 2021, by and between Ardelyx, Inc. and Jefferies LLC.</a>	8-K	8/17/2021	10.1	
31.1	<a href="#">Certification of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>				X
31.2	<a href="#">Certification of Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</a>				X
32.1	<a href="#">Certification of Chief Executive Officer and Chief Financial Officer Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</a>				X
101	The following financial statements, formatted in Inline Extensible Business Reporting Language (XBRL): (i) Condensed Balance Sheets as of September 30, 2021 and December 31, 2020, (ii) Condensed Statements of Operations and Comprehensive Loss for the three and nine months ended September 30, 2021 and 2020, (iii) Condensed Statements of Cash Flows for the nine months ended September 30, 2021 and 2020, and (iv) Notes to Unaudited Condensed Financial Statements.				X
104	Cover Page Interactive Data File, formatted in Inline XBRL and contained in Exhibit 101.				

**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.

**Ardelyx, Inc.**

Date: November 12, 2021

By: /s/ Justin Renz

**Justin Renz**

**Chief Financial Officer**

**(Chief Accounting and Principal Financial Officer)**

## CERTIFICATION

I, Michael Raab, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Ardelyx, 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 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: November 12, 2021

By: \_\_\_\_\_ /s/ Michael Raab

**Michael Raab**  
**President Chief Executive Officer and Director**  
**(Principal Executive Officer)**

## CERTIFICATION

I, Justin Renz, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Ardelyx, 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 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: November 12, 2021

By: \_\_\_\_\_  
/s/ Justin Renz  
**Justin Renz**  
**Chief Financial Officer**  
**(Principal Financial and Accounting Officer)**

**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Ardelyx, Inc. (the "Company") on Form 10-Q for the period ending September 30, 2021, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Michael Raab, President and Chief Executive Officer of the Company, and Justin Renz, Chief Financial Officer of the Company, respectively, do each hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: November 12, 2021

By: \_\_\_\_\_  
/s/ Michael Raab  
**Michael Raab**  
**President Chief Executive Officer and Director**  
**(Principal Executive Officer)**

Date: November 12, 2021

By: \_\_\_\_\_  
/s/ Justin Renz  
**Justin Renz**  
**Chief Financial Officer**  
**(Principal Financial and Accounting Officer)**