UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-O

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

For the quarterly period ended March 31, 2023

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 001-38114

AVENUE THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

47-4113275

(I.R.S. Employer Identification No.)

1111 Kane Concourse, Suite 301, Bay Harbor Islands, FL 33154

(Address of principal executive offices and zip code)

(781) 652-4500

(Registrant's telephone number, including area code)

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

Title of Class	Trading Symbol(s)	Exchange Name
Common Stock	ATXI	Nasdaq Capital 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 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, a smaller reporting company, or an emerging growth company. See definition of "large accelerated filer," "accelerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer $\ \square$ Non-accelerated filer 🛛 Emerging growth company □ Accelerated filer \square

Smaller reporting company
⊠

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

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

Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date.

Class of Common Stock	Outstanding Shares as of May 8, 2023			
Common Stock, \$0.0001 par value	7,920,485			

AVENUE THERAPEUTICS, INC. Form 10-Q For the Quarter Ended March 31, 2023

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AVENUE THERAPEUTICS, INC. Unaudited Condensed Consolidated Balance Sheets (\$ in thousands, except share and per share amounts)

	M	larch 31, 2023	De	cember 31, 2022
ASSETS				
Current assets:				
Cash and cash equivalents	\$	8,236	\$	6,708
Other receivables - related party		13		_
Prepaid expenses and other current assets		198		137
Total assets	\$	8,447	\$	6,845
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current Liabilities:				
Accounts payable and accrued expenses	\$	1,838	\$	949
Accrued licenses acquired		3,000		—
Accounts payable and accrued expenses - related party		44		21
Warrant liability		5,722		2,609
Total current liabilities		10,604		3,579
Total liabilities		10,604		3,579
Commitments and contingencies				
Stockholders' equity (deficit)				
Preferred stock (\$0.0001 par value), 2,000,000 shares authorized				
Class A Preferred Stock, 250,000 shares issued and outstanding as of March 31, 2023 and December 31, 2022		_		_
Common stock (\$0.0001 par value), 75,000,000 shares authorized				
Common shares, 6,828,186 and 4,773,841 shares issued and outstanding as of March 31, 2023 and December 31, 2022, respectively		1		_
Additional paid-in capital		86,634		84,456
Accumulated deficit		(88,087)		(80,551)
Total stockholders' equity attributed to the Company		(1,452)		3,905
Non-controlling interests		(705)		(639)
Total stockholders' equity (deficit)		(2,157)		3,266
Total liabilities and stockholders' equity	\$	8,447	\$	6,845

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

AVENUE THERAPEUTICS, INC. Unaudited Condensed Consolidated Statements of Operations (\$ in thousands, except share and per share amounts)

	For the	For the Three Months Ended March 31,		
	20	023	2022	
Operating expenses:				
Research and development	\$	1,215 \$	\$ 1,808	
Research and development - licenses acquired		4,230	—	
General and administrative		984	1,055	
Loss from operations		(6,429)	(2,863)	
Other income (expense)			-	
Interest income		37	2	
Financing costs – warrant liabilities		(332)	—	
Change in fair value of warrant liabilities		(878)	_	
Total other income (expense)		(1,173)	2	
Net loss	\$	(7,602)	\$ (2,861)	
Net loss attributable to non-controlling interests		66	_	
Net loss attributable to common stockholders	\$	(7,536)	\$ (2,861)	
Net loss per common share attributable to common stockholders, basic and diluted	\$	(1.35) \$	\$ (2.05)	
Weighted average number of common shares outstanding, basic and diluted		5,564,830	1,397,145	

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

AVENUE THERAPEUTICS, INC. Unaudited Condensed Consolidated Statement of Changes in Stockholders' Equity (Deficit) (\$ in thousands, except share amounts)

		,	Three months ende	ed March 31, 202	23					
	Class A P Sha Shares		<u> </u>	n Shares Amount		Additional Paid-in Capital	Ac	cumulated Deficit	Non- Controlling Interests	Total Stockholders' Equity (Deficit)
Balance at December 31, 2022	250,000	\$ —	4,773,841	\$ _		\$ 84,456	\$	(80,551)	\$ (639)	\$ 3,266
Share based compensation		·		_		11	-	(**,***)	+ (,	11
Issuance of common stock to										
Fortress	_	_	374,644		-	72			_	72
Issuance of common stock and pre- funded warrants, net of offering costs - registered direct offering										
and private placement	_	_	448,000	1		865		_	—	866
Issuance of common stock for										
license acquisition	—	—	831,618		-	1,230		—	—	1,230
Exercise of warrants	—	_	400,083		-	—		—	—	—
Net loss attributable to non-										
controlling interest	—	—	—		-	—		—	(66)	(66)
Net loss attributable to common										
stockholders								(7,536)		(7,536)
Balance at March 31, 2023	250,000	<u>\$ </u>	6,828,186	\$ 1		\$ 86,634	\$	(88,087)	\$ (705)	\$ (2,157)
			Three months ende	ed March 31, 202	22					
	Class A P Sha		Commo	n Shares		Additional Paid-in	Ac	cumulated	Non- Controlling	Total Stockholders'
	Shares	Amount	Shares	Amount		Capital		Deficit	Interests	Equity (Deficit)
Balance at December 31, 2021	250,000	S —	1,405,959	s —		\$ 80,450	\$	(76,999)	\$ —	\$ 3,451
· · · · · · · · · · · · · · · · · · ·	250,000	۰	1,045,126	ф —		\$ 80,450 569	3	(70,999)	۰	\$ 3,451 569
Share based compensation Net loss	_	_	1,043,120			509		(2,861)		(2,861)
	250.000	<u> </u>	2,451,085	<u> </u>	_ ,	<u> </u>	\$	(79,860)	<u> </u>	(2,861) \$ 1,159
Balance at March 31, 2022	250,000	<u> </u>	2,451,085	» —		\$ 81,019	3	(79,860)	»	s 1,159

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

AVENUE THERAPEUTICS, INC. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited) (\$ in thousands)

	For the Three Months Ended			Ended
	Mar	ch 31, 2023	Mar	ch 31, 2022
Cash Flows from Operating Activities:				
Net loss	\$	(7,602)	\$	(2,861)
Reconciliation of net loss to net cash used in operating activities:				
Share based compensation		11		569
Change in fair value of warrant liability		878		
Issuance of common stock for licenses acquired		1,230		—
Issuance of common stock to Fortress		72		
Changes in operating assets and liabilities:				
Other receivables - related party		(13)		90
Prepaid expenses and other current assets		(61)		(16)
Accounts payable and accrued expenses		889		295
Accrued licenses acquired		3,000		—
Accounts payable and accrued expenses - related party		23		(7)
Net cash used in operating activities		(1,573)		(1,930)
Cash flows from Financing Activities:				
Issuance of common stock and pre-funded warrants, net of offering costs - registered direct offering and private				
placement		3,101		_
Net cash provided by financing activities		3,101		—
Net change in cash and cash equivalents		1,528		(1,930)
Cash and cash equivalents, beginning of period		6,708		3,763
Cash and cash equivalents, end of period	\$	8,236	\$	1,833
Supplemental cash flow information:				
Unpaid research and development licenses acquired	\$	3,000	\$	

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

AVENUE THERAPEUTICS, INC. NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Note 1 - Organization, Plan of Business Operations

Avenue Therapeutics, Inc. (the "Company" or "Avenue") was incorporated in Delaware on February 9, 2015, as a wholly-owned subsidiary of Fortress Biotech, Inc. ("Fortress"). Avenue is a specialty pharmaceutical company focused on the development and commercialization of therapies for the treatment of neurologic diseases. Our current product candidates include AJ201 for the treatment of spinal and bulbar muscular atrophy ("SBMA"), intravenous Tramadol ("IV Tramadol") for the treatment of post-operative acute pain, and BAER-101 for the treatment of epilepsy and panic disorders. We may in the future acquire additional product candidates.

Reverse Stock Split

As a result of the reverse stock split effective on September 23, 2022, every 15 shares of common stock outstanding immediately prior to the effectiveness of the reverse stock split were combined and converted into one share of common stock without any change in the par value per share. No fractional shares were issued in connection with the reverse stock split. In connection with the reverse stock split, the holders of a majority of the voting power of our capital stock executed a written consent approving the reduction of the number of authorized shares of Common Stock immediately after the reverse stock split from 50,000,000 to 20,000,000 shares, which reduction became effective on September 23, 2022. On February 2, 2023, following the approval of our Board of Directors and our stockholders at the Company's 2022 annual meeting of stockholders, we filed an amendment to our Third Amended and Restated Certificate of Incorporation to increase the number of authorized shares of Common Stock from 25,000,000 to 75,000,000 shares. All share and per share information has been retroactively adjusted to give effect to the reverse stock split for all periods presented, unless otherwise indicated.

Liquidity and Capital Resources

Going Concern

These consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles ("GAAP") assuming the Company will continue as a going concern. The going concern assumption contemplates the realization of assets and satisfaction of liabilities in the normal course of business. However, as described below, substantial doubt about the Company's ability to continue as a going concern exists.

The Company is not yet generating revenue, has incurred substantial operating losses since its inception and expects to continue to incur significant operating losses for the foreseeable future as it executes on its product development plan and may never become profitable. As of March 31, 2023, the Company had an accumulated deficit of \$88.1 million. Due to uncertainties regarding future operations of the Company for a study protocol that could form the basis for the submission of a complete response to the second Complete Response Letter for IV Tramadol, and the expansion of the Company's development portfolio within neuroscience with the consummation of the transaction with Baergic, the Company will need to secure additional funds through equity or debt offerings, or other potential sources, the timing of which is unknown at this time. The Company will require additional funds to cover operational expenses over the next 12 months. The Company cannot be certain that additional funding will be available to it on acceptable terms, or at all. These factors individually and collectively cause substantial doubt about the Company's ability to continue as a going concern to exist within one year from the date of the issuance of this report. The consolidated financial statements do not include any adjustments to the carrying amounts and classification of assets, liabilities, and reported expenses that may be necessary if the Company were unable to continue as a going concern.

Note 2 - Significant Accounting Policies

Basis of Presentation

The Company's consolidated financial statements have been prepared in conformity with U.S. GAAP, include all adjustments necessary for the fair presentation of the Company's financial position for the periods presented and are stated in U.S. dollars. The Company's consolidated financial statements include the accounts of the Company and the accounts of the Company's subsidiary, Baergic. All intercompany balances and transactions have been eliminated in consolidation. In the opinion of management, the unaudited interim condensed consolidated financial statements reflect all adjustments, which include only normal recurring adjustments, necessary for the fair statement of the balances and results for the periods presented.

Certain information and footnote disclosures normally included in the Company's annual financial statements prepared in accordance with U.S. GAAP have been condensed or omitted. These unaudited interim condensed financial statement results are not necessarily indicative of results to be expected for the full fiscal year or any future period. Therefore, these unaudited interim condensed financial statements should be read in conjunction with the Company's audited financial statements and notes thereto for the fiscal year ended December 31, 2022, which were included in the Company's Annual Report on Form 10-K (the "2022 Form 10-K") and filed with the U.S. Securities and Exchange Commission ("SEC") on March 31, 2023

The accompanying consolidated financial statements include the accounts of the Company's subsidiary. For consolidated entities where the Company owns less than 100% of the subsidiary, the Company records net loss attributable to non-controlling interests in its consolidated statements of operations equal to the percentage of the economic or ownership interest retained in such entities by the respective non-controlling parties. The Company continually assesses whether changes to existing relationships or future transactions may result in the consolidation or deconsolidation of partner companies.

The preparation of the Company's unaudited condensed consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the unaudited condensed consolidated financial statements and the reported amounts of expenses during the reporting period.

Use of Estimates

The Company's consolidated financial statements include certain amounts that are based on management's best estimates and judgements. The Company's significant estimates include, but are not limited to, fair value of warrants, stock-based compensation, common stock issued to acquire licenses, accrued expenses, provisions for income taxes and contingencies. Due to the uncertainty inherent in such estimates, actual results may differ from these estimates.

Other Receivables – Related Party

Other receivables consist of amounts due from Urica Therapeutics, Inc. ("Urica"), a consolidated entity under Fortress, and are recorded at the invoiced amount.

Non-controlling interests in consolidated entities represent the component of equity in consolidated entities held by third parties. Any change in ownership of a subsidiary while the controlling financial interest is retained is accounted for as an equity transaction between the controlling and non-controlling interests.

Summary of Significant Accounting Policies

There have been no material changes in the Company's significant accounting policies to those previously disclosed in the 2022 Form 10-K.

Note 3 — Licenses/Supplier Agreements

Effective as of February 17, 2015, Fortress transferred the Revogenex license and all other rights and obligations under the IV Tramadol License Agreement to the Company, pursuant to the terms of the Founders Agreement. In connection with the terms of the IV Tramdol License Agreement, Fortress purchased an exclusive license to IV Tramadol for the U.S. market from Revogenex, a privately held company in Dublin, Ireland. Fortress made an upfront payment of \$2.0 million to Revogenex upon execution of the exclusive license, and on June 17, 2015, Fortress paid an additional \$1.0 million to Revogenex after receiving all the assets specified in the agreement. In December 2019, \$1.0 million became due to Revogenex in accordance with the Company's submission of its NDA. In addition, under the terms of the agreement, Revogenex is eligible to receive an additional milestone payment totaling \$3.0 million upon the approval of IV Tramadol from the FDA as well as royalty payments on net sales of the product ranging in the high single digits to low double digits.

On October 29, 2018, the Company and Zaklady Farmaceutyczne Polpharma ("Polpharma") extended the term of their exclusive supply agreement for drug product of IV Tramadol to eight years from the date of the launch of the product. In addition, under the terms of the amended agreement, Polpharma is eligible to receive a milestone payment totaling \$2.0 million upon the approval of IV Tramadol from the FDA, as well as a low single digit royalty on net sales of the product for five years after launch.

Baergic Licenses

In December 2019, Baergic entered into two license agreements: (i) a license agreement (the "AZ License") with AstraZeneca AB ("AZ") to acquire an exclusive license to patent and related intellectual property rights pertaining to their proprietary compound Gamma-aminobutyric acid receptor A alpha 2 & 3 (GABAA α2,3) positive allosteric modulators; and (ii) a license agreement (the "CCHMC License") with Cincinnati Children's Hospital Medical Center ("CCHMC") to acquire patent and related intellectual property rights pertaining to a GABA inhibitor program for neurological disorders. Baergic paid an upfront fee of \$3.0 million to AZ and \$0.2 million to CCHMC, as well as issued common shares of Baergic of approximately 20% and 5% of Baergic to each at the time of the license agreement, respectively.

Development milestones totaling approximately \$81.5 million in the aggregate are due upon achievement of each milestone. Commercial and sales-based milestone payments totaling approximately \$151 million are due upon achievement of each milestone, as well as royalty payments in the low to high single digits on any future aggregate, annual, worldwide net sales.

AnnJi License Agreement

On February 28, 2023, the Company entered into a license agreement with AnnJi Pharmaceutical Co. Ltd. ("AnnJi"), whereby the Company obtained an exclusive license (the "AnnJi License Agreement") from AnnJi to intellectual property rights pertaining to the molecule known as JM17, which activates Nrf1 and Nrf2, enhances androgen receptor degradation and underlies AJ201, a clinical product candidate currently in a Phase 1b/2a clinical trial in the U.S. for the treatment of SBMA, also known as Kennedy's Disease. Under the AnnJi License Agreement, in exchange for exclusive rights to the intellectual property underlying the AJ201 product candidates, the Company agreed to pay \$3.0 million, of which \$2.0 million was paid on April 27, 2023 and \$1.0 million is payable within 180 day after the effective date of the AnnJi License Agreement.

The license provided under the AnnJi License Agreement is exclusive as to all oral forms of AJ201 for use in all indications (other than androgenetic alopecia and Alzheimer's disease) in the United States, Canada, the European Union, the United Kingdom and Israel. The AnnJi License Agreement also contains customary representations and warranties and provisions related to confidentiality, diligence, indemnification and intellectual property protection. The Company will initially be obligated to obtain both clinical and commercial supply of AJ201 exclusively through AnnJi. AnnJi retains the manufacturing rights for AJ201 and the Company has the option to acquire those rights from AnnJi as described in the AnnJi License Agreement.

The Company is also obligated to issue shares of its common stock under the Subscription Agreement and make additional payments over the course of the AnnJi License Agreement including: reimbursement payments of up to \$10.8 million in connection with the product's Phase 1b/2a clinical trial, (which AnnJi is administering with Joint Steering Committee Oversight before assigning the IND to the Company upon such trial's conclusion, and which is reflective of market pricing for the services to be received), up to \$14.5 million in connection with certain development milestones pertaining to the first indication in the U.S., up to \$27.5 million in connection with certain net sales milestones pertaining to additional indications and development outside the U.S., up to \$165 million upon the achievement of certain net sales milestones ranging from \$75 million to \$750 million in annual net sales, and royalty payments based on a percentage of net sales ranging from mid-single digits (on annual net sales equal to or greater than \$300 million), which are subject to potential diminution in certain circumstances.

In connection with the signing of the AnnJi License Agreement, the Company issued 831,618 shares of its common stock to AnnJi ("First Tranche Shares") at a fair value of \$0.9 million on March 30, 2023. The Company will issue an additional 276,652 shares of common stock, recorded at a fair value of \$0.3 million, upon enrollment of the eighth patient in the ongoing Phase 1b/2a SBMA clinical trial ("Second Tranche Shares"). The fair value was calculated based on the closing price of the Company's stock as of February 28, 2023. The Company and AnnJi entered into a Subscription Agreement, dated as of February 28, 2023, that provided for the issuance of First Tranche Shares which were issued March 30, 2023. The Company and AnnJi will enter into a subsequent subscription agreement, in substantially the same form as the Subscription Agreement, with respect to the issuance of the Second Tranche Shares. In the event that the common stock of the Company ceases to be traded on a national securities exchange, AnnJi has the right to sell common stock of the Company back to the Company at a price of \$2.10 per share subject to the terms in the AnnJi License Agreement.

In connection with execution of the AnnJi License Agreement, Avenue entered into a registration rights agreement with AnnJi ("AnnJi Registration Rights Agreement"), pursuant to which Avenue will be required to file, on or prior to August 28, 2023, a registration statement with the SEC to register the resale of the First Tranche and Second Tranche Shares.

Note 4 — Fair Value Measurements

The Company follows accounting guidance on fair value measurements for financial assets and liabilities measured at fair value on a recurring basis. Under the accounting guidance, fair value is defined as an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or a liability.

The accounting guidance requires fair value measurements be classified and disclosed in one of the following three categories:

Level 1: Quoted prices in active markets for identical assets or liabilities.

Level 2: Observable inputs other than Level 1 prices for similar assets or liabilities that are directly or indirectly observable in the marketplace.

Level 3: Unobservable inputs which are supported by little or no market activity and that are financial instruments whose values are determined using pricing models, discounted cash flow methodologies, or similar techniques, as well as instruments for which the determination of fair value requires significant judgment or estimation.

The fair value hierarchy also requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Assets and liabilities measured at fair value are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires management to make judgments and consider factors specific to the asset or liability.

Certain of the Company's financial instruments are not measured at fair value on a recurring basis but are recorded at amounts that approximate their fair value due to their liquid or short-term nature, such as accounts payable, accrued expenses and other current liabilities.

Fair Value of Warrant Liabilities

Warrant liabilities are categorized within Level 3 of the fair value hierarchy and are measured at fair value on a recurring basis as follows (in thousands):

	ctober 2022 Warrants	January 2023 Warrants	Total
Fair value of warrants outstanding as of December 31, 2022	\$ 2,609	\$ 	\$ 2,609
Fair value of warrants at issuance as of January 31, 2023		2,235	2,235
Change in fair value of warrants	1,462	(584)	878
Fair value of warrants outstanding as of March 31, 2023	\$ 4,071	\$ 1,651	\$ 5,722

Warrant Liability

The Company has issued freestanding warrants to purchase shares of our common stock in connection with financing activities (Warrants as described in Note 8). The Company's outstanding common stock warrants issued in connection with the equity offering completed in October 2022 ("October 2022 Warrants") and January 2023 ("January 2023 Warrants") are classified as liabilities in the balance sheet as they contain terms for redemption of the underlying security that are outside our control. The Company used a Monte Carlo simulation approach, which allows to factor in the effect of a down-round protection feature, to value the October 2022 Warrants at the time of issuance on October 11, 2022 and for the period ending December 31, 2022. The Black-Scholes model was used to value the January 2023 Warrants at the time of issuance on January 31, 2023. The approach required management to estimate inputs including expected volatility and expected term, and is most significantly impacted by the volatility of our common stock price. These inputs are inherently subjective and require significant analysis and judgment to develop.

The fair value of the warrants is re-measured at each financial reporting date with any changes in fair value being recognized in change in fair value of warrant liabilities, a component of other income (expense), in the condensed consolidated statements of operations and comprehensive income (loss). The Company will continue to re-measure the fair value of the October 2022 Warrant liabilities until exercise or expiration of the warrants on October 10, 2027 and the January 2023 Warrants until exercise or expiration of the warrants on January 31, 2026. The October 2022 Warrants originally contained a one-time down-round price protection feature. In connection with the January 31, 2023 Registered Direct and Private Placement, the down-round price protection feature was used and the exercise price for the October 2022 Warrants was permanently adjusted to \$1.55. The Black-Scholes model was used to value the October 2022 Warrants and January 2023 Warrants as of March 31, 2023.

The key inputs for the October 2022 Warrants for the Monte Carlo simulation and Black-Scholes model were as follows:

	March 31, 2023 (Black-Scholes model)	December 31, 2022 (Monte Carlo simulation)
Stock price	\$ 1.17	\$ 1.16
Risk-free interest rate	3.60%	4.02%
Expected dividend yield	—	
Expected term in years	4.53	4.78
Expected volatility	137%	93%

The key inputs for the January 2023 Warrants using the Black-Scholes model were as follows:

	March 31,	January 31, 2023 (Initial
	2023	measurement)
Stock price	\$ 1.17	\$ 1.38
Risk-free interest rate	3.819	% 3.90%
Expected dividend yield	_	_
Expected term in years	2.84	3.00
Expected volatility	1649	% 160%

Note 5 — Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses consisted of the following (in thousands):

	As of March 31, 2023	As of December 31, 2022
Accounts payable	\$ 330	\$ 129
Accrued employee compensation	287	199
InvaGen contingent fee	_	208
Accrued contracted services and other	1,221	413
Total accounts payable and accrued expenses	\$ 1,838	\$ 949

Note 6 - Related Party Transactions

Founders Agreement and Management Services Agreement with Fortress

Fortress entered into a Founders Agreement with Avenue in February 2015 (as amended, the "Fortress-Avenue Founders Agreement"), pursuant to which Fortress assigned to Avenue all of its rights and interest under Fortress's license agreement with Revogenex for IV Tramadol (the "IV Tramadol License Agreement"). As additional consideration for the transfer of rights under the original Fortress-Avenue Founders Agreement, Avenue also agreed to: (i) issue annually to Fortress, on the anniversary date of the Fortress-Avenue Founders Agreement, shares of common stock equal to two and one half percent (2.5%) of the fully-diluted outstanding equity of Avenue; (ii) pay an equity fee in shares of Avenue common stock, payable within five (5) business days of the closing of any equity or debt financing for Avenue or any of its respective subsidiaries that occurs after the effective date of the Founders Agreement and ending on the date when Fortress no longer has majority voting control in Avenue's voting equity, equal to two and one half percent (2.5%) of the gross amount of any such equity or debt financing; and (iii) pay a cash fee equal to four and one half percent (4.5%) of Avenue's annual net sales, payable on an annual basis, within ninety (90) days of the end of each calendar year. In the event of a change in control (as it is defined in the Founders Agreement), Fortress will be paid a one-time change in control fee equal to five (5x) times the product of (i) net sales for the twelve (12) months immediately preceding the change in control and (ii) four and one-half percent (4.5%).

Effective as of February 17, 2015, Fortress entered into a Management Services Agreement (the "Fortress-Avenue MSA") with Avenue pursuant to which Fortress provides advisory and consulting services to Avenue pursuant to the terms thereof. The Fortress-Avenue MSA contained an initial five-year term and shall be automatically extended for additional five-year periods unless Fortress or the Company provides written notice of its desire not to automatically extend the term of the MSA at least 90 days prior to the applicable expiration date. Services provided under the Fortress-Avenue MSA may include, without limitation, (i) advice and assistance concerning any and all aspects of Avenue's operations, clinical trials, financial planning and strategic transactions and financings and (ii) conducting relations on behalf of Avenue with accountants, attorneys, financial advisors and other professionals (collectively, the "Services"). Avenue is obligated to utilize clinical research services, medical education, communication and marketing services and investor relations/public relation services of companies or individuals designated by Fortress, provided those services are offered at market prices. However, Avenue is not obligated to tap on any advice rendered from Fortress, and Fortress shall not be liable for any of Avenue's actions or inactions based upon their advice. Fortress and its affiliates, including all members of Avenue's Board of Directors, have been contractually exempt from fiduciary duties to Avenue relating to corporate opportunities. In consideration for the Services, Avenue will pay Fortress an anual consulting fee of \$0.5 million (the "Annual Consulting Fee"), payable in advance in equal quarterly installments on the first business day of each calendar quarter in each year, provided, however, that such Annual Consulting Fee shall be increased to \$1.0 million for each calendar year in which Avenue has net assets in excess of \$100.0 million at the beginning of the calendar year. The Fortress-Avenue MSA fe

Founders Agreement and Management Services Agreement with Baergic

Pursuant to the Share Contribution Agreement between Avenue and Fortress, the Founders Agreement and Management Services Agreement that had previously been existing between Fortress and Baergic were assigned to Avenue, such that they now exist between Avenue and Baergic; those agreements are referred to herein as the Avenue-Baergic Founders Agreement and the Avenue-Baergic MSA, as applicable. The Annual Stock Dividend payable to the Company is 2.5% of common stock calculated as a percentage of fully diluted outstanding capital and became effective as of November 8, 2022. For the year ended December 31, 2022, Baergic recorded an Annual Stock Dividend of \$10.5 thousand to Avenue on December 31, 2022, which was paid in shares on January 1, 2023.

The Avenue-Baergic Founders Agreement has an effective date of March 9, 2017, and a term of 15 years, which upon expiration automatically renews for successive one-year periods unless terminated by Avenue and Baergic or a Change in Control (as defined in the Avenue-Baergic Founders Agreement) occurs.

As additional consideration under the Avenue-Baergic Founders Agreement, Baergic will also: (i) pay an equity fee in shares of common stock, payable within five (5) business days of the closing of any equity or debt financing for Baergic that occurs after the effective date of the Avenue-Baergic Founders Agreement and ending on the date when Avenue no longer has majority voting control in the Baergic's voting equity, equal to two and one-half (2.5%) of the gross amount of any such equity or debt financing; and (ii) pay a cash fee equal to four and one-half percent (4.5%) of the Baergic's annual net sales, payable on an annual basis, within ninety (90) days of the end of each calendar year. In the event of a Change in Control, Baergic will pay a one-time change in control fee equal to five (5x) times the product of (A) net sales for the twelve (12) months immediately preceding the change in control and (B) four and one-half percent (4.5%).

The Avenue-Baergic MSA has an effective date of March 9, 2017, pursuant to which Avenue renders management, advisory and consulting services to the Company. The MSA has an initial term of five years and is automatically renewed for successive five-year terms unless terminated in accordance with its provisions. Services provided under the MSA may include, without limitation, (i) advice and assistance concerning any and all aspects of the Baergic's operations, clinical trials, financial planning and strategic transactions and financings and (ii) conducting relations on behalf of the Baergic with accountants, attorneys, financial advisors and other professionals (collectively, the "Avenue Services"). Baergic is obligated to utilize clinical research services, medical education, communication and marketing services and investor relations/public relation services of companies or individuals designated by Avenue, provided those services are offered at market prices. However, Baergic is not obligated to take or act upon any advice rendered from Avenue and Avenue shall not be liable for any of its actions or inactions based upon their advice. Pursuant to the Avenue-Baergic MSA and Baergic's Certificate of Incorporation, Avenue and its affiliates, including all members of Baergic's Board of Directors, will have no fiduciary or other duty to communicate or present any corporate opportunities to Baergic or to refrain from engaging in business that is similar to that of Baergic. In consideration for the Avenue Services, Baergic will pay Avenue an annual consulting fee of \$0.5 million (the "Avenue-Baergic Annual Consulting Fee shall be increased to \$1.0 million for each calendar year in which Baergic has net assets in excess of \$100 million at the beginning of the calendar year.

Shared Services Agreement with Urica Therapeutics

Effective February 1, 2023, the Company and Urica entered into a sharing arrangement for a certain Avenue employee to be shared with Urica. During the arrangement, Urica has the authority to supervise the Avenue employee and will reimburse the Company for the employee's salary and salary-related costs. The term of this agreement lasts 3 months and can be extended for consecutive three-month periods. The amounts reimbursable to Avenue was \$27,124 for the three months ended March 31, 2023. The amounts were recorded as a reduction in research and development expenses on the Company's consolidated statements of operations. The amount due to the Company as of March 31, 2023 that is related to the shared services agreement is \$13,564 and is included in "Other receivables – related party" on the Company's consolidated balance sheets.

Note 7 - Net Loss per Share

Loss per share is computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding, excluding unvested restricted stock and stock options and preferred shares, during the period. Dividends declared are paid and set aside among the holders of shares of common stock and Class A Preferred stock pro-rata on an as-if-converted basis.

The following table sets forth the potential common shares that could potentially dilute basic income per share in the future that were not included in the computation of diluted net loss per share because to do so would have been anti-dilutive for the periods presented:

		For the Three Months Ended March 31,			
	2023	2022			
Unvested restricted stock units/awards	13,137	21,412			
Warrants	7,170,431	—			
Class A Preferred shares	16,666	16,666			
Total potential dilutive effect	7,200,234	38,078			

Note 8 - Stockholders' Equity

Equity Incentive Plan

The Company has in effect the Avenue Therapeutics, Inc. 2015 Incentive Plan (as amended, the "2015 Incentive Plan'). The 2015 Incentive Plan was adopted in January 2015 by our stockholders and an amendment to the plan to increase the number of authorized shares issuable to 266,666 shares was approved by our stockholders in December 2021. The 2015 Incentive Plan was amended again to increase the number of authorized shares issuable to 5,266,666 shares and approved by our stockholders on January 30, 2023. Under the 2015 Incentive Plan, the compensation committee of the Company's board of directors is authorized to grant stock-based awards to directors, officers, employees and consultants. The plan authorizes grants to issue up to 5,266,666 shares of authorized but unissued common stock and expires 10 years from adoption and limits the term of each option to no more than 10 years from the date of grant.

Total shares available for the issuance of stock-based awards under the Company's 2015 Incentive Plan was 5,122,489 shares at March 31, 2023.

Restricted Stock Units and Restricted Stock Awards

The restricted units and awards had a weighted average grant date fair value of \$12.17 and an unvested balance of 13,137 as of March 31, 2023 and December 31, 2022.

For the three months ended March 31, 2023 and 2022 stock-based compensation expenses associated with the amortization of restricted stock units and restricted stock awards for employees and non-employees were approximately \$11,000 and \$569,000, respectively.

At March 31, 2023, the Company had unrecognized stock-based compensation expense related to restricted stock units and restricted stock awards of \$0.1 million, which is expected to be recognized over the remaining weighted-average vesting period of 1.71 years. This amount does not include, as of March 31, 2023, 3,333 shares of restricted stock outstanding which are performance-based and vest upon achievement of certain corporate milestones. The expense is recognized over the vesting period of the award. Stock-based compensation for awards containing performance conditions will be measured as of the grant date and recorded if and when it is probable that the performance condition will be achieved.

Stock Warrants

The following table summarizes the warrant activity for the three months ended March 31, 2023 and 2022:

	Warrants	Weighted Average Exercise Price		Aggregate Intrinsic Value (in thousands)		
Outstanding, December 31, 2022	4,137,916	\$	3.30	\$ 1		
Granted	3,432,598		0.88	—		
Exercised	(400,083)		—	—		
Outstanding, March 31, 2023	7,170,431	\$	1.32	\$ 1,272		

Capital Raises

January 2023 Registered and Private Placement

On January 27, 2023, the Company entered into a Securities Purchase Agreement (the "Registered Purchase Agreement") with a single institutional accredited investor, pursuant to which the Company agreed to issue and sell (i) 448,000 shares (the "Shares") of the Companies' common stock at a price per Share of \$1.55, and (ii) pre-funded warrants (the "Pre-funded Warrants") to purchase 1,492,299 shares of common stock, at a price per Pre-funded Warrant equal to the price per Share, less \$0.001 (the "Registered Offering"). The Pre-funded Warrants have an exercise price of \$0.001 per share, became exercisable upon issuance and remain exercisable until exercised in full. The Company received approximately \$3.0 million in gross proceeds from the Registered Offering, before deducting placement agency fees and estimated offering expenses.

On January 27, 2023, the Company also entered into a Securities Purchase Agreement (the "PIPE Purchase Agreement") with the same institutional accredited investor for a private placement offering ("Private Placement") of warrants (the "January 2023 Warrants") to purchase 1,940,299 shares of common stock. Pursuant to the PIPE Purchase Agreement, we agreed to issue and sell the January 2023 Warrants at an offering price of \$0.125 per January 2023 Warrant to purchase one share of common stock. The January 2023 Warrants have an exercise price of \$1.55 per share (subject to adjustment as set forth in the January 2023 Warrants), are exercisable immediately after issuance and will expire three years from the date on which the January 2023 Warrants become exercisable. The January 2023 Warrants contain standard anti-dilution adjustments to the exercise price including for share splits, share dividend, rights offerings and pro rata distributions. The Private Placement closed on January 31, 2023, concurrently with the Registered Offering. The gross proceeds to us from the Private Placement, before deducting placement agent fees and other estimated offering expenses payable by us, were approximately \$0.24 million.

InvaGen Share Repurchase

Under the Share Repurchase Agreement, we agreed to pay InvaGen an additional amount as a contingent fee, payable in the form of seven and a half percent (7.5%) of the proceeds of future financings, up to \$4.0 million. In connection with the closing of the Registered Purchase Agreement and Private Placement, which occurred on January 31, 2023, we made a payment of \$0.2 million to InavGen on February 3, 2023.

Item 2. Financial Information.

Management's Discussion and Analysis of the Results of Operations

Forward-Looking Statements

Certain matters discussed in this report may constitute forward-looking statements for purposes of the Securities Act of 1933, as amended (the "Securities Act"), and the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from the future results, performance or achievements expressed or implied by such forward-looking statements. The words "anticipate," "believe," "estimate," "may," "expect," "will," "could," "project," "should," "intend" and similar expressions are generally intended to identify forward-looking statements. Our actual results may differ materially from the results anticipated in or implied by these forward-looking statements due to a variety of factors, including, without limitation:

- the fact that we currently have no drug products for sale and that our success is dependent on our product candidates receiving regulatory approval and being successfully commercialized;
- the possibility that serious adverse or unacceptable side effects are identified during the development of our current or future product candidates, such that we would need to abandon or limit development of some of our product candidates;
- our ability to successfully integrate Baergic Bio, Inc. or develop BAER-101 or AJ201;
- the substantial doubt raised about our ability to continue as a going concern, which may hinder our ability to obtain future financing;
- the significant losses we have incurred since inception and our expectation that we will continue to incur losses for the foreseeable future;
- our need for substantial additional funding, which may not be available to us on acceptable terms, or at all, which unavailability could force us to delay, reduce or eliminate our product development programs or commercialization efforts;
- our reliance on third parties for several aspects of our operations;
- our reliance on clinical data and results obtained by third parties that could ultimately prove to be inaccurate or unreliable;
- the possibility that we may not receive regulatory approval for any or all of our product candidates, or that such approval may be significantly delayed due to scientific or regulatory reasons;
- the fact that even if one or more of our product candidates receives regulatory approval, they will remain subject to substantial regulatory scrutiny;
- the effects of current and future laws and regulations relating to fraud and abuse, false claims, transparency, health information privacy and security and other healthcare laws and regulations;
- the effects of competition for our product candidates and the potential for new products to emerge that provide different or better therapeutic alternatives for our targeted indications;
- the possibility that the government or third-party payors fail to provide adequate coverage and payment rates for our product candidates or any future products;
- our ability to establish sales and marketing capabilities or to enter into agreements with third parties to market and sell our product candidates;
- our exposure to potential product liability claims;
- related to the protection of our intellectual property and our potential inability to maintain sufficient patent protection for our technology and products;
- our ability to maintain compliance with the obligations under our intellectual property licenses and funding arrangements with third parties, without which licenses and arrangements we could lose rights that are important to our business;
- the fact that Fortress controls a voting majority of our common stock and has rights to receive significant share grants annually; and
- and the risks described in under the section titled "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2022 (the "2022 Form 10-K").

The forward-looking statements contained in this report reflect our views and assumptions as of the effective date of this report. New risks and uncertainties arise from time to time, and it is impossible for us to predict these events or how they may affect us. Except as required by law, we assume no responsibility for updating any forward-looking statements.

We qualify all of our forward-looking statements by these cautionary statements. In addition, with respect to all of our forward-looking statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995.

Overview

Avenue Therapeutics, Inc. ("Avenue" or the "Company") is a specialty pharmaceutical company focused on the development and commercialization of therapies for the treatment of neurologic diseases. Our product candidates include AJ201 for the treatment of SBMA, intravenous Tramadol ("IV Tramadol") for the treatment of post-operative acute pain, and BAER-101 for the treatment of epilepsy and panic disorders.

Our net loss for the three months ended March 31, 2023 and 2022 was approximately \$7.6 million and \$2.9 million, respectively. As of March 31, 2023, we had an accumulated deficit of approximately \$88.1 million. Substantially all our net losses resulted from costs incurred in connection with the ongoing AJ201 Phase 1b/2a clinical trial, our research and development program of IV Tramadol, and from general and administrative costs associated with our operations.

We expect to continue to incur research and development costs and increased general and administration related costs and incur operating losses for at least the next several years as we continue the development of our product candidates.

We intend to obtain additional capital through the sale of debt or equity financings or other arrangements to fund our operations, research and development activity or regulatory approval activity; however, there can be no assurance that we will be able to raise the necessary capital under acceptable terms, if at all. The sale of additional equity may dilute existing stockholders and newly issued shares may contain senior rights and preferences compared to currently outstanding shares of our common stock. Issued debt securities may contain covenants and limit our ability to pay dividends or make other distributions to stockholders. If we are unable to obtain such additional financing, future operations would need to be scaled back or discontinued.

We are a majority-controlled subsidiary of Fortress. For related party transactions, see Note 4 to our financial statements included in this Quarterly Report on Form 10-Q.

Avenue Therapeutics, Inc. was incorporated in Delaware on February 9, 2015. Our executive offices are located at 1111 Kane Concourse, Suite 301, Bay Harbor Islands, FL 33154. Our telephone number is (781) 652-4500, and our email address is info@avenuetx.com.

AJ201

In February 2023, we announced that we entered into a license agreement (the "AnnJi License Agreement") with AnnJi Pharmaceutical Co., Ltd. ("AnnJi") whereby the Company obtained an exclusive license from AnnJi to intellectual property rights pertaining to the molecule known as JM17, which activates Nrf1 and Nrf2, enhances androgen receptor degradation and underlies AJ201, a clinical product candidate currently in a Phase 1b/2a clinical trial in the United States ("U.S.") for the treatment of SBMA, also known as Kennedy's Disease.

Under the AnnJi License Agreement, in exchange for exclusive rights to the intellectual property underlying the AJ201 product candidate, the Company will pay an initial cash license fee of \$3.0 million, of which \$2.0 million was paid on April 27, 2023 and \$1.0 million payable within 180 days after the effective date of the AnnJi License Agreement. The Company is also obligated to issue shares of its common stock under the Subscription Agreement (described below) and make additional payments over the course of the AnnJi License Agreement including reimbursement payments of up to \$10.8 million in connection with the product's Phase 1b/2a clinical trial.

In connection with the signing of the AnnJi License Agreement, the Company agreed to issue 831,618 shares of its common stock to AnnJi (the "First Tranche Shares"), and then to issue an additional 276,652 shares of Common Stock upon enrollment of the eighth patient in the ongoing Phase 1b/2a SBMA clinical trial (the "Second Tranche Shares" and, together with the First Tranche Shares, the "Consideration Shares"). The license provided under the AnnJi License Agreement is exclusive as to all oral forms of AJ201 for use in all indications (other than androgenetic alopecia and Alzheimer's disease) in the United States, Canada, the European Union, the United Kingdom and Israel. The AnnJi License Agreement also contains customary representations and warranties and provisions related to confidentiality, dilgence, indemnification and intellectual property protection. The Company will initially be obligated to obtain both clinical and commercial supply of AJ201 exclusively through AnnJi. The Company and AnnJi entered into a subscription agreement, in substantially the same form as the Subscription Agreement, with respect to the issuance of the Second Tranche Shares. Also in connection with execution of the AnnJi License Agreement, the Company entered into a registration rights agreement (the "Registration Rights Agreement") with AnnJi. Pursuant to the Registration Rights Agreement, the Company will be required to file, on or prior to August 28, 2023, a registration statement with the SEC to register the resale of the Consideration Shares.

IV Tramadol

On February 15, 2022, we had our Advisory Committee meeting with the Food and Drug Administration ("FDA") regarding IV Tramadol. In the final part of the public meeting, the Advisory Committee voted yes or no on the following question: "Has the Applicant submitted adequate information to support the position that the benefits of their product outweigh the risks for the management of acute pain severe enough to require an opioid analgesic in an inpatient setting?" The results were 8 yes votes and 14 no votes. On March 18, 2022, we received an Appeal Denied Letter from the OND in response to the FDRR. On August 31, 2022, the Company disclosed that, on June 17, 2022, following the receipt of the Letter, the Company submitted a Type A Meeting Request and related briefing documents to the FDA. The meeting was granted by the Division of Anesthesia, Analgesia, and Addiction Products ("DAAAP") on June 27, 2022, and scheduled for August 9, 2022. The Company submitted a briefing document presenting a study design that the Company believed has the potential to address the comments and deficiencies noted in the Letter and sought the DAAAP's guidance to refine the study design that would support a resubmission of a New Drug Application for the Company's current lead product candidate, intravenous Tramadol. The meeting minutes and submitted a detailed study protocol that could form the basis for the submission of a complete response to the Second CRL.

The Company participated in a Type C meeting with the FDA on March 9, 2023 to discuss a proposed study protocol to assess the risk of respiratory depression related to opioid stacking on IV Tramadol relative to an approved opioid analgesic. We announced on April 17, 2023 that the Company has received official meeting minutes from the Type C meeting with the FDA. The Type C meeting minutes indicate that the FDA and the Company are in agreement with a majority of the proposed protocol items and are in active discussion about remaining open items. The minutes indicate that the FDA also agrees that a successful study will support the submission of a complete response to the second Complete Response Letter for IV Tramadol pending final agreement on a statistical analysis plan and a full review of the submitted data in the complete response as well as concurrence from the DAAAP. We continue to evaluate next steps with regard to IV Tramadol.



We also recently expanded our business with the acquisition of Baergic Bio, Inc. ("Baergic") and its asset BAER-101, which would strategically align with Avenue's goals of building a rare and neurologic pipeline. On May 11, 2022, we entered into a stock contribution agreement (the "Contribution Agreement") with Fortress, pursuant to which Fortress agreed to transfer ownership of 100% of its shares (common and preferred) in Baergic to us. The acquisition was completed on November 8, 2022 and as a result, Baergic is currently a majority-controlled and owned private subsidiary company of Avenue.

Baergic is a clinical-stage pharmaceutical company founded in December 2019 that focuses on the development of pharmaceutical products for the treatment of neurologic disorders. Baergic's pipeline currently consists of a single compound, BAER-101, a novel $\alpha 2/3$ -subtype-selective GABA A positive allosteric modulator. BAER-101 (formally known as AZD7325) was originally developed by AstraZeneca and has an established safety profile in early clinical trials including over 700 patients.

Under the Contribution Agreement, Fortress also agreed to assign to us certain intercompany agreements existing between Fortress and Baergic, including a Founders Agreement and Management Services Agreement.

The Baergic transaction expands our development portfolio within neurologic diseases. Evaluation and negotiation of the Contribution Agreement was overseen, and execution of the Contribution Agreement was approved, by special committees at the Avenue and Fortress levels, both of which exclusively comprised independent and disinterested directors of the respective companies' boards.

Reverse Stock Split

On July 25, 2022, the holders of a majority of the voting power of our capital stock executed a written consent approving a grant of discretionary authority to our board of directors (the "Board") to, without further stockholder approval, (i) effect a reverse stock split of our issued and outstanding common stock within a range of between 10-for-1 and 20-for-1 (with the Board being authorized to determinate the exact ratio) (the "Reverse Stock Split") and (ii) reduce the number of our authorized shares of common stock from 50,000,000 to 20,000,000 (the "Authorized Share Reduction") by filing an amendment (the "Amendment") to our Third Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware. The written consent was signed by the holders of 9,423,429 shares of our common stock and 250,000 shares of our Class A Preferred Stock. Each share of common stock entitles the holder thereof to one vote on all matters submitted to stockholders and each share of Class A Preferred Stock has the voting power of 1.1 times (A) the number of outstanding shares of Class A Preferred Stock, or 99 votes per share as of July 25, 2022. Accordingly, the holders of approximately 73% of the voting power of our capital stock as of July 25, 2022 signed the written consent approving the Reverse Stock Split, the Authorized Share Reduction and the Amendment. The Board also approved the Reverse Stock Split, the Authorized Share Reduction and the Amendment.

The Reverse Stock Split was effective on September 23, 2022 upon filing of the Amendment with the Secretary of State of Delaware, which date was at least twenty (20) days following the mailing of the information statement. Under the Amendment, the number of authorized shares of common stock immediately after the Reverse Stock Split ("New Common Stock") was simultaneously reduced from 50,000,000 to 20,000,000 shares. All share and per share information has been retroactively adjusted to give effect to the Reverse Stock Split for all periods presented, unless otherwise indicated.

As a result of the Reverse Stock Split, every 15 shares of common stock outstanding immediately prior to the effectiveness of the Reverse Stock Split were combined and converted into one share of New Common Stock without any change in the par value per share. No fractional shares were issued in connection with the Reverse Stock Split. Stockholders who would otherwise be entitled to a fraction of one share of New Common Stock as a result of the Reverse Stock Split instead received an amount in cash equal to such fraction multiplied by the closing sale price of common stock on the Nasdaq Capital Market on September 22, 2022, as adjusted for the Reverse Stock Split.

January 2023 Registered Direct and Private Placement

On January 27, 2023, we entered into a Securities Purchase Agreement (the "Registered Purchase Agreement") with a single institutional accredited investor, pursuant to which we agreed to issue and sell (i) 448,000 shares (the "Shares") of our common stock at a price per Share of \$1.55, and (ii) pre-funded warrants (the "Pre-funded Warrants") to purchase 1,492,299 shares of common stock, at a price per Pre-funded Warrant equal to the price per Share, less \$0.001 (the "Registered Offering"). The Pre-funded Warrants have an exercise price of \$0.001 per share, became exercisable upon issuance and remain exercisable until exercised in full. We received approximately \$3.0 million in gross proceeds from the Registered Offering, before deducting placement agency fees and estimated offering expenses.

On January 27, 2023, we also entered into a Securities Purchase Agreement (the "PIPE Purchase Agreement") with the same institutional accredited investor for a private placement offering ("Private Placement") of warrants (the "PIPE Warrants") to purchase 1,940,299 shares of common stock. Pursuant to the PIPE Purchase Agreement, we agreed to issue and sell the PIPE Warrants at an offering price of \$0.125 per PIPE Warrant to purchase one share of common stock. The PIPE Warrants have an exercise price of \$1.55 per share (subject to adjustment as set forth in the PIPE Warrants), are exercisable immediately upon issuance and will expire three years from the date on which the PIPE Warrants become exercisable. The PIPE Warrants contain standard anti-dilution adjustments to the exercise price including for share splits, share dividend, rights offerings and pro rata distributions. The Private Placement closed on January 31, 2023, concurrently with the Registered Offering. The gross proceeds to us from the Private Placement, before deducting placement agent fees and other estimated offering expenses payable by us, were approximately \$0.24 million.

In connection with the PIPE Purchase Agreement, we entered into a registration rights agreement (the "Registration Rights Agreement") with the investor. Pursuant to the Registration Rights Agreement, we will be required to file, on or prior to April 10, 2023 (the "Filing Date"), a resale registration statement (the "Resale Registration Statement") with the SEC to register the resale of the shares issuable upon exercise of the PIPE Warrants. Pursuant to the Registration Rights Agreement, the Resale Registration Statement must be declared effective by the SEC within 15 days after the Filing Date or 45 days following the Filing Date if the Resale Registration Statement is reviewed by the SEC. We will be obligated to pay certain liquidated damages to the investor if we fail to file the resale registration statement when required, if the Resale Registration Statement is not declared effective by the SEC when required under the Registration Rights Agreement, or if we fail to maintain the effectiveness of the Resale Registration Statement.

Increase in Authorized Shares

On February 2, 2023, following the approval of our Board and our stockholders at the Company's 2022 annual meeting of stockholders, we filed an amendment to our Third Amended and Restated Certificate of Incorporation to increase the number of authorized shares of Common Stock from 25,000,000 to 75,000,000 shares.

InvaGen Share Repurchase

Under the Share Repurchase Agreement, we agreed to pay InvaGen an additional amount as a contingent fee, payable in the form of seven and a half percent (7.5%) of the proceeds of future financings, up to \$4.0 million. In connection with the closing of the Registered Purchase Agreement and Private Placement, which occurred on January 31, 2023, we made a payment of \$0.2 million to InavGen on February 3, 2023.

Critical Accounting Policies and Use of Estimates

Our discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with GAAP. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and the disclosure of contingent assets and liabilities in our consolidated financial statements. On an ongoing basis, we evaluate our estimates and judgments, including those related to accrued expenses and stock-based compensation. We base our estimates on historical experience, known trends and events and various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

For a discussion of our critical accounting estimates, see the Management's Discussion and Analysis of the Results of Operations in the 2022 Form 10-K.

There were no material changes in our critical accounting estimates or accounting policies from December 31, 2022.

Results of Operations

General

At March 31, 2023, we had an accumulated deficit of \$88.1 million, primarily as a result of expenditures for licenses acquired, for research and development and for general and administrative purposes. While we may in the future generate revenue from a variety of sources, including license fees, milestone payments, research and development payments in connection with strategic partnerships and/or product sales, our product candidate are still in development and may never be successfully developed or commercialized. Accordingly, we expect to continue to incur substantial losses from operations for the foreseeable future, and there can be no assurance that we will ever generate significant revenues.

Comparison of the Three Months Ended March 31, 2023 and 2022

	For The Three Months Ended							
		March 31,				Change		
(\$ in thousands)		2023 2022			\$	%		
Operating expenses:								
Research and development	\$	1,215	\$	1,808	\$	(593)	(33)%	
Research and development - licenses acquired		4,230		_		4,230	%	
General and administrative		984		1,055		(71)	(7)%	
Loss from operations		(6,429)		(2,863)		(3,566)	125%	
Other income (expense)								
Interest income		37		2		35	1750%	
Financing costs – warrant liabilities		(332)		_		(332)	%	
Change in fair value of warrant liabilities		(878)				(878)	%	
Total other income (expense)		(1,173)		2		(1,175)	(100)%	
Net Loss	\$	(7,602)	\$	(2,861)	\$	(4,741)	166%	
Net loss attributable to non-controlling interests		66		—		66	%	
Net loss attributable to common stockholders		(7,536)		(2,861)		(4,675)	163%	
	12							

Research and Development Expenses

Research and development expenses primarily consist of personnel related expenses, including salaries, benefits, travel, and other related expenses, stock-based compensation, payments made to third parties for license and milestone costs related to in-licensed products and technology, payments made to third party contract research organizations for preclinical and clinical studies, investigative sites for clinical trials, consultants, the cost of acquiring and manufacturing clinical trial materials, costs associated with pre-commercialization validation manufacturing, costs associated with regulatory filings, laboratory costs and other supplies.

For the three months ended March 31, 2023 and 2022, research and development expenses were \$1.2 million and \$1.8 million, respectively. The decrease of \$0.6 million is primarily associated with a reduction of \$1.0 million due to advisory committee preparation and costs, \$0.2 million in bonus costs, and \$0.3 million in non-cash stock compensation costs offset by increases of \$0.9 million in AJ201 clinical study expenses.

For the three months ended March 31, 2023 and 2022, research and development - licenses acquired expenses were \$4.2 million and \$0, respectively. The increase of \$4.2 million is primarily associated with the AnnJi \$3.0 million upfront payment and \$1.2 million fair value of the First Tranche Shares and Second Tranche Shares.

We expect our research and development activities to continue as we attempt to gain regulatory approval for our existing product candidate, reflecting costs associated with the following:

- employee-related expenses;
- license fees and milestone payments related to in-licensed product and technology;
- expenses incurred under agreements with contract research organizations, investigative sites and consultants that conduct our clinical trials;
- the cost of acquiring and manufacturing clinical trial materials; and
- costs associated with non-clinical activities, and regulatory interactions, submissions, and approvals.

General and Administrative Expenses

General and administrative expenses consist principally of professional fees for legal and consulting services, market research, personnel-related costs, public reporting company related costs and other general operating expenses not otherwise included in research and development expenses. We expect our general and administrative costs to continue as we seek potential regulatory approval and commercialization of our product candidates.

For the three months ended March 31, 2023 and 2022, general and administrative expenses were \$1.0 million and \$1.0 million, respectively.

Interest Income

Interest income was \$37,000 and \$2,000 for the three months ended March 31, 2023 and 2022, respectively. The increase in interest income was due to the increase in cash and higher interest rates.

Liquidity and Capital Resources

Going Concern

The Company is not yet generating revenue, has incurred substantial operating losses since its inception and expects to continue to incur significant operating losses for the foreseeable future as it executes on its product development plan and may never become profitable. As of March 31, 2023, we had a cash and cash equivalents balance of \$8.2 million and accumulated deficit of \$88.1 million. We do not believe that our cash is sufficient for the next twelve months. As a result of our financial condition and other factors described herein, there is substantial doubt about our ability to continue as a going concern. Our ability to continue as a going concern will depend on our ability to obtain additional funding, as to which no assurances can be given. We continue to analyze various alternatives, including potentially obtaining lines of credit, debt or equity financings or other arrangements. Our future success depends on our ability to raise capital and/or implement the various strategic alternatives discussed above. We cannot be certain that these initiatives or raising additional capital, whether through selling additional debt or equity securities or obtaining a line of credit or other loan, will be available to us or, if available, will be on terms acceptable to us. If we issue additional securities to raise funds, these securities may have rights, preferences, or privileges senior to those of our common stock, and our current shareholders may experience dilution. If we are unable to obtain funds when needed or on acceptable terms, we may be required to curtail our current development programs, cut operating costs, forego future development and other opportunities or even terminate our operations.

Recently Adopted and Issued Accounting Pronouncements

As of March 31, 2023, there were no new accounting pronouncements or updates to recently issued accounting pronouncements disclosed in the 2022 Form 10-K that would materially affect the Company's present or future results of operations, overall financial condition, liquidity, or disclosures upon adoption.

Cash Flows for the Three Months Ended March 31, 2023 and 2022

	For the Three Months Ended March 31,					
(\$ in thousands)	 2023	2022				
Total cash and cash equivalents provided by (used in):						
Operating activities	\$ (1,573)	\$	(1,930)			
Financing activities	3,101		—			
Net increase in cash and cash equivalents	\$ 1,528	\$	(1,930)			

Operating Activities

Net cash and cash equivalents used in operating activities was \$1.6 million for the three months ended March 31, 2023, primarily comprised of our \$7.6 million net loss partially offset by an increase in operating assets and liabilities of \$3.8 million, \$1.2 million in stock issuance for licenses acquired, \$0.9 million change in fair value of warrant liability and \$0.1 million in common share issuance to Fortress.

Net cash and cash equivalents used in operating activities was \$1.9 million for the three months ended March 31, 2022, primarily comprised of our \$2.9 million net loss partially offset by \$0.6 million in share based compensation and increase in operating assets and liabilities of \$0.4 million.

Financing Activities

Net cash and cash equivalents provided by financing activities was \$3.1 million for the three months ended March 31, 2023, primarily comprised of the \$3.1 million Registered Direct and Private Placement on January 31, 2023.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

We are a smaller reporting company as defined by Rule 12b-2 of the Securities Exchange Act of 1934, as amended, or the Exchange Act, and are not required to provide the information required under this item.

Item 4. Controls and Procedures

Disclosure Controls and Procedures

We maintain "disclosure controls and procedures," as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), that are designed to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in Securities and Exchange Commission rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and interim Chief Financial Officer, to allow timely decisions regarding required disclosure.

The design of any disclosure controls and procedures also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions.

With respect to the quarter ended March 31, 2023, under the supervision and with the participation of our management, we conducted an evaluation of the effectiveness of the design and operations of our disclosure controls and procedures. Based upon this evaluation, the Company's Chief Executive Officer and interim Chief Financial Officer have concluded that the Company's disclosure controls and procedures are effective.

Management does not expect that our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control systems are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in a cost-effective control system, no evaluation of internal control over financial reporting can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, have been or will be detected.

Changes in Internal Control over Financial Reporting:

There were no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the fiscal quarter ended March 31, 2023 which have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Part II. Other Information

Item 1. Legal Proceedings.

To our knowledge, there are no legal proceedings pending against us, other than routine actions and administrative proceedings, and other actions not deemed material are not expected to have a material adverse effect on our financial condition, results of operations, or cash flows. In the ordinary course of business, however, the Company may be subject to both insured and uninsured litigation. Suits and claims may be brought against the Company by customers, suppliers, partners and/or third parties (including tort claims for personal injury arising from clinical trials of the Company's product candidates and property damage) alleging deficiencies in performance, breach of contract, etc., and seeking resulting alleged damages.

Item 1A. Risk Factors

We have disclosed under the heading "Risk Factors" in the 2022 Form 10-K a number of risks which may materially affect our business, financial condition or results of operations. You should carefully consider the "Risk Factors" set forth in the 2022 Form 10-K, the information below, and the other information set forth elsewhere in this Quarterly Report on Form 10-Q. You should be aware that these risk factors and other information may not describe every risk facing our Company. Additional risks and uncertainties not currently known to us may also materially affect our business, financial condition and/or results of operations.

Item 2. Recent Sales of Unregistered Securities.

Other than as previously disclosed in the Company's prior filings with the SEC in Current Reports on Form 8-K, we did not sell any equity securities during the three months ended March 31, 2023 in transactions that were not registered under the Securities Act.

Item 3. Defaults Upon Senior Securities.

N/A.

Item 4. Mine Safety Disclosures.

N/A.

Item 5. Other Information.

N/A.

Item 6. Financial Statements and Exhibits

Exhibit No.	Description
3.1	Third Amended and Restated Certificate of Incorporation of Avenue Therapeutics, Inc., filed as Exhibit 3.1 to Form 8-K filed on June 27, 2017 (File No.
	001-38114) and incorporated herein by reference.
3.2	Certificate of Amendment of the Third Amended and Restated Certificate of Incorporation of Avenue Therapeutics, Inc., filed as Exhibit 3.1 to Form 10-
	<u>Q filed on August 14, 2018 (File No. 001-38114) and incorporated herein by reference.</u>
3.3	Certificate of Amendment of the Third Amended and Restated Certificate of Incorporation of Avenue Therapeutics, Inc., filed as Exhibit 3.1 to Form 8-K
	filed on September 22, 2022 (File No. 001-38114) and incorporated herein by reference.
3.4	Certificate of Amendment of the Third Amended and Restated Certificate of Incorporation of Avenue Therapeutics, Inc., filed as Exhibit 3.1 to Form 8-K
	filed on February 3, 2023 (File No. 001-38114) and incorporated herein by reference.
3.5	Second Amended and Restated Bylaws of Avenue Therapeutics, Inc., filed as Exhibit 3.1 to Form 8-K filed on February 10, 2023 (File No. 000-38114)
	and incorporated herein by reference.
10.1	Amendment to the Avenue Therapeutics, Inc. 2015 Incentive Plan, filed as Exhibit 3.1 to Form 8-K filed on February 3, 2023 (File No. 001-38114) and
	incorporated herein by reference.
10.2	Form of Securities Purchase Agreement (Registered Offering), dated January 27, 2023, by and among the Company and the purchaser party thereto, filed
	as Exhibit 10.1 to Form 8-K filed on February 1, 2023 (File No. 001-38114) and incorporated herein by reference.
10.3	Form of Securities Purchase Agreement (PIPE), dated January 27, 2023, by and among the Company and the purchaser party thereto, filed as Exhibit
	10.2 to Form 8-K filed on February 1, 2023 (File No. 001-38114) and incorporated herein by reference.
10.4	Form of Pre-Funded Warrant (Registered Offering), filed as Exhibit 10.3 to Form 8-K filed on February 1, 2023 (File No. 001-38114) and incorporated
	herein by reference
10.5	Form of PIPE Warrant (PIPE), filed as Exhibit 10.4 to Form 8-K filed on February 1, 2023 (File No. 001-38114) and incorporated herein by reference
10.6	Form of Registration Rights Agreement, dated January 27, 2023, by and among the Company and the purchaser party thereto, filed as Exhibit 10.5 to
	Form 8-K filed on February 1, 2023 (File No. 001-38114) and incorporated herein by reference.
10.7	Form of Lockup Agreement, filed as Exhibit 10.6 to Form 8-K filed on February 1, 2023 (File No. 001-38114) and incorporated herein by reference.
10.8	Placement Agent Agreement entered into by and between the Company and Aegis Capital Corp., dated January 27, 2023, filed as Exhibit 10.7 to Form 8- K filed on February 1, 2023 (File No. 001-38114) and incorporated herein by reference.
10.9	AnnJi License Agreement by and between the Company and AnnJi Pharmaceutical Co. Ltd., dated February 28, 2023. *+#
10.10	Registration Rights Agreement by and between the Company and AnnJi Pharmaceutical Co. Ltd., dated February 28, 2023. *#
16.1	Letter from BDO USA, LLP, filed as Exhibit 16.1 to Form 8-K filed on January 25, 2023 (File No. 001-38114) and incorporated herein by reference.
31.1	Certification of Principal Executive Officer of Avenue Therapeutics, Inc. pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the
	Sarbanes-Oxley Act of 2002, dated May 12, 2023. *
31.2	Certification of Principal Financial Officer of Avenue Therapeutics, Inc. pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the
	Sarbanes-Oxley Act of 2002, dated May 12, 2023. *
32.1	Certification of Principal Executive Officer of Avenue Therapeutics, Inc., pursuant to 18 U.S.C. §1350, as adopted pursuant to Section 906 of the
	Sarbanes-Oxley Act of 2002, dated May 12, 2023. **
32.2	Certification of Principal Financial Officer of Avenue Therapeutics, Inc. pursuant to 18 U.S.C. \$1350, as adopted pursuant to Section 906 of the
	Sarbanes-Oxley Act of 2002, dated May 12, 2023. **
101	The following financial information from the Company's Quarterly Report on Form 10-Q for the period ended March 31, 2023, formatted in Inline
	Extensible Business Reporting Language (iXBRL): (i) the Condensed Consolidated Balance Sheets, (ii) the Condensed Consolidated Statements of
	Operations, (iii) the Condensed Consolidated Statements of Stockholders' Equity, (iv) the Condensed Consolidated Statements of Cash Flows, and
	(v) Notes to the Condensed Consolidated Financial Statements. *
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101). *

** Furnished herewith.

Certain schedules and exhibits have been omitted pursuant to Item 601(a)(5) of Regulation S-K. A copy of any omitted schedule and/or exhibit will be furnished to + the Securities and Exchange Commission upon request. Certain portions of this exhibit (indicated by "[***]") have been omitted pursuant to Item 601(b)(10)(iv) of Regulation S-K.

#

SIGNATURES

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

Date: May 12, 2023

Date: May 12, 2023

Avenue Therapeutics, Inc. (Registrant)

By: /s/ Alexandra MacLean, M.D. Alexandra MacLean, M.D. Chief Executive Officer and Director

By: /s/ David Jin

David Jin Interim Chief Financial Officer and Chief Operating Officer (Duly Authorized Officer, Principal Financial and Accounting Officer)

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) WOULD BE COMPETITIVELY HARMFUL IF PUBLICLY DISCLOSED.

LICENSE AGREEMENT

by and between

ANNJI PHARMACEUTICAL CO. LTD.

and

AVENUE THERAPEUTICS, INC

dated February 28, 2023

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LICENSE AGREEMENT

This LICENSE AGREEMENT (this "Agreement") is made and entered into effective as of February 28, 2023 (the "Effective Date") by and between AnnJi Pharmaceutical Co. Ltd., a Taiwanese corporation having its principal office at B405, No. 18, Siyuan St., Zhongzheng Dist., Taipei City 100, Taiwan ("Licensor"), and Avenue Therapeutics, Inc., a Delaware corporation having its principal office at 2 Gansevoort Street, 9th Floor, New York NY 10014, USA ("Avenue"). Each of Licensor and Avenue may be referred to herein individually as a "Party," and collectively as the "Parties."

RECITALS

WHEREAS, Licensor has developed the molecule known as JM17 (defined in more detail below as the "Licensed Molecule") that activates Nrf1 and Nrf2 and enhances androgen receptor degradation; and

WHEREAS, the Parties desire to enter into this Agreement, pursuant to which Avenue wishes to obtain, and Licensor wishes to grant, a license under the Licensed IP (as defined below) with respect to the Licensed Molecule and Licensed Products in the Field and in the Territory (each, as defined below) on the terms and conditions set forth in this Agreement.

Now, THEREFORE, in consideration of the foregoing and the mutual agreements set forth below, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

AGREEMENT

1. Definitions

When used and capitalized in this Agreement (other than in Section headings), including the foregoing recitals and any Exhibits or Schedules hereto, the following terms shall have the meanings assigned to them in this Section 1, and include the plural as well as the singular, and all participles of each such term, as applicable.

1.1 "Accelerated Assessment" means a scheme to reduce the timeframe for the MAA application reviewed by EMA Committee for Medicinal Products for Human Use to 150 days according to Article 14 (9) of Regulation (EC) No 726/2004.

1.2 "Accelerated Approval" means United States Regulatory Approval obtained pursuant to the FDA's Accelerated Approval Program as set forth 21 C.F.R. § 314 Subpart H (as applicable) or any successor program, and any equivalent program outside of the United States, including Conditional Market Authorization.

1.3 "Accounting Standards" means: (a) United States Generally Accepted Accounting Principles ("GAAP"); or (b) to the extent that a Party adopts International Financial Reporting Standards ("IFRS"), IFRS, in either case ((a) or (b)), consistently applied.

1.4 "*Affiliate*" means any Person which, directly or indirectly through one (1) or more intermediaries, controls, is controlled by, or is under common control with a Party. For purposes of this <u>Section 1.4</u> only, the term "control" (including, with correlative meanings, the terms "controlled by" and "under common control with") as used with respect to a Person means: (a) direct or indirect ownership of fifty percent (50%) or more of the voting securities or other voting interest of any Person (including attribution from related parties); or (b) the possession, directly or indirectly, of the power to direct, or cause the direction of, the management and policies of such Person, whether through ownership of voting securities, by contract, as a general partner, as a manager, or otherwise. For the avoidance of doubt, "Affiliate" includes Subsidiaries.

1.5 "Agreement" is defined in the preamble.

1.6 "AnnJi Regulatory Materials and Data" means all Regulatory Materials and Data, in each case to the extent: (a) Controlled by AnnJi or its Affiliates during the Term; and (b) relating specifically to Licensed Product or Licensed Molecule.

1.7 "Annual Net Sales" means, with respect to a particular Calendar Year, aggregate Net Sales in the Territory of all Licensed Products in such Calendar Year.

1.8 "*Applicable Law*" means all applicable laws, statutes, rules, regulations, orders, judgments, or ordinances having the effect of law of any national, multinational, federal, state, provincial, county, city, or other political subdivision, including, to the extent applicable but without limitation, GCP, GLP, and GMP, as well as all applicable data protection and privacy laws, rules, and regulations, including, to the extent applicable, the United States Department of Health and Human Services privacy rules under the Health Insurance Portability and Accountability Act (HIPAA) and the Health Information Technology for Economic and Clinical Health Act (HITECH) and the EU Data Protection Directive (Council Directive 95/46/EC) and applicable laws implementing the EU Data Protection Directive and the General Data Protection Regulation (2016/679).

- 1.9 "Auditor" is defined in Section 6.6(b).
- 1.10 "Avenue" is defined in the preamble.
- 1.11 "Avenue Indemnitees" is defined in Section 10.2.

1.12 *"Avenue Regulatory Materials and Data"* will mean any and all Regulatory Materials and Data, in each case to the extent: (a) Controlled by Avenue, its Affiliates, or Sublicensees during the Term; and (b) relating specifically to Licensed Product or Licensed Molecule.

1.13 *"Avenue Sole Invention License Term"* means a period commencing on the Effective Date and continuing until: (a) with respect to each Patent that claims Sole Inventions, the expiration of such Patent; or (b) with respect to Know-How comprising Sole Inventions, the termination or expiration of this Agreement.

1.14 "Business Day" means a day on which banking institutions in New York City, New York, are open for business, excluding any Saturday or Sunday.

1.15 "Breakthrough Designation" means a designation by the FDA of a drug as a breakthrough therapy as set forth in 21 U.S.C. § 356(a) and related FDA guidance, and equivalent rules, regulations and guidance outside of the United States, for example, PRIority MEdicine designation granted by EMA.

1.16 "*Calendar Quarter*" means each of the three (3)-month periods ending March 31, June 30, September 30, and December 31, provided that: (a) the first Calendar Quarter of the Term shall extend from the Effective Date to the end of the first complete such three (3)-month period thereafter; and (b) the final Calendar Quarter of the Term shall end on the last day of the Term.

1.17 "*Calendar Year*" means the period beginning on the Effective Date and ending on December 31 of the calendar year in which the Effective Date falls, and thereafter each successive period of twelve (12) consecutive calendar months beginning on January 1 and ending on December 31, provided that the final Calendar Year of the Term shall end on the last day of the Term.

- 1.18 "Clinical Supply Agreement" is defined in Section 5.1.
- 1.19 "Clinical Trial" means a human clinical trial of a Licensed Product, regardless of its controlled or uncontrolled status.
- 1.20 "Code" is defined in Section 11.5(b).

1.21 "Combination Product" means any pharmaceutical or biological product that includes or incorporates Licensed Product (with or without one or more such other active ingredients), in each such case when the Licensed Product and any of the foregoing are co-formulated, co-packaged or sold under one pricing scheme (whether payment of such price is paid to the same or to more than one seller).

- 1.22 "Commercial Agreement Request" is defined in Section 4.7.
- 1.23 "Commercial Supply Agreement" is defined in Section 4.7.

1.24 "Commercial Supply Agreement Arbitrator" is defined in Exhibit H. The Commercial Supply Agreement Arbitrator is also referred to as the "CSA Arbitrator."

1.25 "Commercialization" means any and all activities directed to the commercialization of a product, including marketing, detailing, promotion, market research, distributing, order processing, handling returns and recalls, booking sales, customer service, administering, and commercially selling such product, importing, exporting, and transporting such product for commercial sale, and seeking Pricing Approval of a product (if applicable), whether before or after Regulatory Approval has been obtained, as well all regulatory compliance with respect to the foregoing. For clarity, "Commercialization" shall be deemed to include conducting medical affairs activities, and interacting with Regulatory Authorities regarding any of the foregoing; but does not include: (a) Manufacturing; or (b) any Clinical Trials and other trials commerced after Regulatory Approval. When used as a verb, "Commercialize" means to engage in Commercialization.

1.26 "Commercially Reasonable Efforts" means: (a) with respect to the efforts to be expended by any Party with respect to any objective, such reasonable, diligent, and good faith efforts as such Party would normally use to accomplish a similar objective under similar circumstances with respect to a Party in relation to an obligation under this Agreement with respect to a Licensed Product; and (b) with respect to any objective relating to Development or Commercialization of Licensed Product by Avenue, such efforts that are consistent with the efforts and resources normally used by a competent biotechnology or pharmaceutical company adequate for the appropriate performance and completion of such an obligation, as applicable, at a similar stage in its research, development, or commercial life as such Licensed Product, and that has commercial and market potential similar to such Licensed Product, on a market-by-market and product-by-product basis in view of conditions prevailing at the time, taking into account issues of intellectual property coverage, safety and efficacy, stage of development, product profile, competitiveness of the marketplace, proprietary position, regulatory exclusivity, anticipated or approved labeling, present and future market and commercial potential, the likelihood of receipt of Regulatory Approval, profitability (including pricing and reimbursement status achieved or likely to be achieved), the existence and developmental stages of alternative products and programs, and legal issues, but without consideration of any of the payments required to be made from Avenue to the other(s) under this Agreement. In determining whether Avenue has used Commercially Reasonable Efforts, neither the Royalty nor other payments made or required to be made from Avenue to the other(s) under this Agreement shall be considered in determining market potential (that is, Avenue may not apply lesser resources or efforts in support of a Licensed Product because it must pay the Royalty or make milestone or any other

- 1.27 "Committee" is defined in Section 3.2(a).
- 1.28 "Common Stock" is defined in Section 6.7(a).
- 1.29 "Competing Infringement" is defined in Section 7.4(a).
- 1.30 "Competing Product" shall mean any pharmaceutical product (other than Licensed Products) for the treatment of spinal and bulbar muscular atrophy.

1.31 "Conditional Market Authorization" means the market authorization of a medicine that addresses unmet medical needs of patients on the basis of less comprehensive data than normally required as set forth in Regulation (EC) No 507/2006.

1.32 "Confidential Information" of a Party means any information, including business intentions, business plans, regulatory matters, regulatory compliance matters, strategies, customers, vendors, pricing and other commercial terms, budgets, forecasts, projections, sales and other financial results, trade secrets, inventions or discoveries, proprietary information, formulae, processes, techniques and information relating to a Party's past, present and future research, Development, manufacture or Commercialization activities of any compound, product or potential product or technology or any (other) Know-How that is disclosed by or on behalf of such Party to the other Party or any Affiliate thereof under this Agreement, in any form (whether written, oral, photographic, electronic, magnetic, or otherwise), or that otherwise becomes known to the other Party or any Affiliate thereof by virtue of this Agreement, irrespective of whether such information is patentable or not and irrespective of whether such information is marked as confidential by the disclosing Party or not.

1.33 "Control," "Controls," or "Controlled" means, with respect to any particular Patents, Know-How or Regulatory Material, possession by the Party granting the applicable right, license, access or release to the other Party as provided herein of the power and authority, whether arising by ownership, license, or other authorization, to disclose and deliver such Patents or Know-How, and to grant and authorize under such Patents, Know-How or Regulatory Materials, the right, license, access or release, as applicable of the scope granted to such other Party in this Agreement without giving rise to any violation of the term of any written agreement with any Third Party existing at the time such disclosure is first made or such right, license access or release first comes into effect hereunder. "Controlled" and "Controlling" have their correlative meanings.

- 1.34 "Cost-Covering Study" is defined in Section 3.1(a).
- 1.35 "Cost-Covering Study Know-How" is defined in Section 3.1(d).
- 1.36 "Cost-Covering Study Report" is defined in Section 3.1(e).

1.37 "Cost of Goods" means, with respect to Licensed Product in bulk form Manufactured for use as an active pharmaceutical ingredient or in finished final packaged and labeled product form, or in intermediate states, as the case may be, Manufactured by or on behalf of a Party under this Agreement, the reasonable, documented internal and external costs of such Party or any of its Affiliates incurred in Manufacturing such Licensed Product, including: (a) to the extent that such Licensed Product is Manufactured by such Party or any of its Affiliates, the cost of goods sold of such Licensed Product, consisting of direct materials and direct labor costs, plus Manufacturing overhead directly attributable to Licensed Product supplied (excluding facilities start-up costs, corporate administrative overhead, depreciation and costs associated with excess capacity), all calculated in accordance with the Accounting Practices of such Party or its Affiliates; (b) to the extent that such Licensed Product is Manufactured by a Third-Party manufacturer, the actual fees paid by such Party or any of its Affiliates to the Third Party for the Manufacture, supply, testing, packaging, labeling and shipping (including the cost of insuring such shipment) of such Licensed Product, and any reasonable out-of-pocket and direct labor costs actually incurred by such Party or any of its Affiliates in managing or overseeing the Third-Party relationship; and (c) subject to Avenue's prior written consent, license or other fees paid by such Party or any of its Affiliates to Third Parties in respect of Manufacture of such Licensed Product.

1.38 "*Cover*" means, with respect to a Licensed Molecule or Licensed Product in a particular country, that the research, Development, Manufacture, use, sale, offer for sale, importation, or other Commercialization of such Licensed Molecule or Licensed Product, as applicable, in such country would, but for any licenses granted under any Licensed Patent, infringe a Valid Claim of such Licensed Patent (considering Valid Claims of patent applications to be issued as then pending). "*Covering*" has a corresponding meaning.

1.39 "Cure Period" is defined in Section 11.3(a).

1.40 "Damages" means all losses, costs, claims, damages, judgments, liabilities, and expenses (including reasonable attorneys' fees and other reasonable and documented out-of-pocket costs in connection therewith).

1.41 "*Data*" means any and all raw scientific, technical or test data, including research data, clinical pharmacology data, CMC data (including analytical and quality control data and stability data), pre-clinical data, clinical data, pharmacovigilance and pharmacoeconomic data and all data in publications, presentations or submissions made in association with Regulatory Materials for a Licensed Product.

1.42 "Default" means: (a) any breach, violation, or default; (b) the existence of circumstances or the occurrence of an event that with the passage of time or the giving of notice or both would constitute a breach, violation, or default; or (c) the existence of circumstances or the occurrence of an event that, with or without the passage of time or the giving of notice or both, would give rise to a right of termination, renegotiation, acceleration, or material change of terms.

1.43 "Development" means: (a) research activities (including drug discovery, identification, or synthesis) with respect to a product; or (b) preclinical and clinical drug development activities and other development activities with respect to Licensed Product, including test method development and stability testing, toxicology, formulation, process development, qualification and validation, quality assurance, quality control, Clinical Trials (including the conduct of Clinical Trials and other trials commenced after Regulatory Approval), statistical analysis and report writing, the preparation and submission of INDs and MAAs, regulatory affairs with respect to the foregoing, and all other activities necessary or useful or otherwise requested or required by a Regulatory Authority or as a condition or in support of obtaining or maintaining a Regulatory Approval. For clarity, "Development" does not include Manufacturing. When used as a verb, "Develop" means to engage in Development.

1.44 "Development Plan" means any initial and subsequent plans established and updated in accordance with Section 4.4 setting forth the Development of the Licensed Product under this Agreement.

- 1.45 "DGCL" is defined in Section 6.7(d).
- 1.46 "Diligence Milestone" is defined in Section 4.2.
- 1.47 "Disclosing Party" is defined in Section 8.1.
- 1.48 "Dispute" is defined in Section 12.7(b).
- 1.49 "Dollars" or "\$" means the legal tender of the United States.

1.50 "Effective Date" is defined in the preamble.

1.51 "EMA" means the European Medicines Agency (and any successor entity thereto).

1.52 "*Encumbrance*" means any claim, charge, equitable interest, hypothecation, lien, mortgage, pledge, security interest, license, adverse claim of ownership or use, reversion, violation, option, restriction on transfer, defect of title, covenant, restriction, rights of others, or any other encumbrance of any kind, whether imposed by agreement, understanding, law, equity or otherwise.

1.53 "EU" means all countries that are officially recognized as member states of the European Union as of the Effective Date.

1.54 "Exercise Notice" is defined in Section 2.5.

1.55 "*Executive Officer(s)*" means with respect to a Party, a senior officer of such Party having at least the level of authority which is customarily held by employees of such Party holding a title of "vice president."

1.56 "Existing Indication" is defined in Section 1.83.

1.57 "Existing Product" means Licensor's product identified as AJ201, which is Phase 1b/2a clinical stage product (Clinical Trial Identifier NCT05517603) in an oral suspension form.

1.58 "Extension Payment" is defined in Section 4.2(c).

1.59 "FDA" means the United States Food and Drug Administration, or any successor agency thereto.

1.60 "FD&CAct" means that federal statute entitled the Federal Food, Drug, and Cosmetic Act and enacted in 1938 as Public Law 75-717, as such may have been amended, and which is contained in Title 21 of the C.F.R. Section 301 et seq.

1.61 "*Field*" means all uses, including the prevention, treatment, diagnosis, detection, monitoring or predisposition testing of all diseases, states or conditions in humans or animals, except for androgenetic alopecia and Alzheimer's Disease.

1.62 "*First Commercial Sale*" means, on an Licensed Product-by-Licensed Product and country-by-country basis, the first sale by Avenue, or its Affiliate or Sublicensee of such Licensed Product in such country for use or consumption by the general public (following receipt of all Regulatory Approvals that are required in order to sell such Licensed Product in such country) and for which a Selling Party has invoiced sales of Licensed Products in the Territory (if no such Regulatory Approval or similar marketing approval is required for a Licensed Product in a country, the date upon which such Licensed Product is first commercially sold in such country to end users), provided that the following shall not constitute a First Commercial Sale: (a) any sale or transfer to an Affiliate or Sublicensee, unless such Affiliate or Sublicensee is the last Person in the distribution chain of such Licensed Product; or (b) any transfer for use of such Licensed Product in Clinical Trials or non-clinical development activities with respect to such Licensed Product by or on behalf of a Selling Party, or transfer for use of such Licensed Product for a bona fide charitable purpose, compassionate use (which is different from Named Patient Sales), or samples. For the avoidance of doubt, Named Patient Sales in any country in Territory will not constitute the First Commercial Sale unless indicated otherwise.

- 1.63 "First EMA Approval" is defined in Table 6.2(a).
- 1.64 "First FDA Approval" is defined in Table 6.2(a).
- 1.65 "First Product EMA Label Expansion" is defined in Table 6.2(a).
- 1.66 "First Licensed Product sNDA" is defined in Table 6.2(a).
- 1.67 "Force Majeure Event" is defined in in Section 12.3.
- 1.68 "FPFD" means the administration of the first dose of a Licensed Product to the first patient (or volunteer, as relevant) participating in a Clinical Trial.
- 1.69 "GAAP" is defined in Section 1.3.

1.70 "*GCP*" means the applicable then-current ethical and scientific quality standards for designing, conducting, recording, and reporting Clinical Trials as are required by applicable Regulatory Authorities or Applicable Law in the relevant jurisdiction, including in the United States, Good Clinical Practices established through FDA guidances, and, outside the United States, Guidelines for Good Clinical Practice – ICH Harmonized Tripartite Guideline (ICH E6).

- 1.71 "Generic Product" is defined in Section 1.100.
- 1.72 "Generic Product Introduction Date" is defined in Section 1.100.

1.73 "*GLP*" means the applicable then-current good laboratory practice standards as are required by applicable Regulatory Authorities or Applicable Law in the relevant jurisdiction, including in the United States, those promulgated or endorsed by the FDA in U.S. 21 C.F.R. Part 58, or the equivalent thereof as promulgated or endorsed by the applicable Regulatory Authorities outside of the United States.

1.74 "*GMP*" means the applicable then-current good manufacturing practice standards relating for fine chemicals, intermediates, bulk products, or finished pharmaceutical, biological, or diagnostic products, as are required by applicable Regulatory Authorities or Applicable Law in the relevant jurisdiction, including, as applicable: (a) all applicable requirements detailed in the FDA's current Good Manufacturing Practices regulations, U.S. 21 C.F.R. Parts 210 and 211; (b) all applicable requirements detailed in the EMA's "*The Rules Governing Medicinal Products in the European Community, Volume IV, Good Manufacturing Practice for Medicinal Products*;" and (c) all Applicable Law promulgated by any Governmental Authority having jurisdiction over the manufacture of the applicable molecule, agent, compound, or pharmaceutical, biological, or diagnostic product, as applicable.

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1.75 "*Governmental Authority*" means any: (a) federal, state, local, municipal, foreign, or other government; (b) governmental or quasi-governmental authority of any nature (including any agency, board, body, branch, bureau, commission, council, department, entity, governmental division, instrumentality, office, official, organization, representative, subdivision, unit, and any court or other tribunal); (c) multinational governmental organization or body; or (d) entity or body exercising, or entitled to exercise, any executive, legislative, judicial, administrative, regulatory, police, military, or taxing authority or power of any nature.

- 1.76 "ICC" is defined in Section 12.7(c)(iii).
- 1.77 "ICC Rules" is defined in Exhibit H.
- 1.78 "IFRS" is defined in Section 1.3.

1.79 "*IND*" means an investigational new drug application (including any amendment or supplement thereto) submitted to the FDA pursuant to U.S. 21 C.F.R. Part 312, including any amendments thereto. References herein to IND shall include, to the extent applicable, any comparable filing(s) outside the U.S. for the investigation of any product in any other country or group of countries (such as a Clinical Trial Application in the EU).

- 1.80 "Indemnification Claim Notice" is defined in Section 10.3(a).
- 1.81 "Indemnitee" is defined in Section 10.3(a).
- 1.82 "Indemnitor" is defined in Section 10.3(a).
- 1.83 "Identified New License" is defined in Section 2.5.

1.84 "*Indication*" means a specific disease or medical condition in humans. For purposes of determining whether an Indication is distinct from another Indication, an Indication ("*New Indication*") is distinct from an existing Indication ("*Existing Indication*") if the Licensed Product could not be lawfully promoted for the treatment of the New Indication under the Regulatory Approval for the Existing Indication.

1.85 "Invention(s)" means any process, method, composition of matter, article of manufacture, discovery, or finding that is conceived or reduced to practice.

1.86 "Issued and Outstanding Equity Securities" means all of the issued and outstanding Common Stock. For the avoidance of doubt, "Issued and Outstanding Equity Securities" does not include preferred stock, options, restricted stock units, warrants, other convertible securities or any of the shares into which any such securities may be convertible or exchangeable.

- 1.87 "Joint Inventions" is defined in Section 7.1.
- 1.88 "Joint Patents" is defined in Section 7.1.
- 1.89 "JSC" is defined in Section 3.2(a).

1.90 "JSC Chair" is defined in Section 3.2(a).

1.91 "*Know-How*" means any scientific or technical information, results and data, protocols, regulatory filings, regulatory documentation (*e.g.*, adverse event reports and CMC documentation), regulatory approvals, methods, processes, techniques, plans, formulations, formulae, data (including pharmacological, biological, chemical, toxicological, clinical and analytical information, quality control, trial and stability data), case reports forms, data analyses, reports, studies and procedures, designs for experiments and tests and results of experimentation and testing (including results of research or development), summaries and information contained in submissions to and information from ethical committees, the FDA or other regulatory authorities, and development information, results and data, whether or not patentable.

1.92 "*Label Expansion*" means, following first receipt of Regulatory Approval for a Licensed Product in an Indication, any subsequent receipt of Regulatory Approval for a New Indication.

1.93 "*Licensed Know-How*" means: (a) all Know-How Controlled by Licensor or its Affiliates as of the Effective Date and that is or would be reasonably necessary or useful to Develop, Commercialize, or otherwise use Licensed Products; and (b) all Cost-Covering Study Know-How.

1.94 "Licensed IP" means the Licensed Patents and the Licensed Know-How.

1.95 "*Licensed Molecule*" means the small molecule pharmaceutical compound with Licensor internal identifier JM17, the structure of which is set forth on Exhibit A.

1.96 "*Licensed Patents*" means: (a) any and all Patents that are Controlled by Licensor as of the Effective Date that Cover the Licensed Product, including the Patents set forth on <u>Exhibit B</u>; (b) any substitutions, divisionals, continuations, continuations-in-part, reissues, renewals, registrations, confirmations, re-examinations, extensions, supplementary protection certificates, and the like of any Patents included in clause (a) above; (c) any and all Patents issuing from the patent applications described in clauses (a) or (b); (d) any and all extensions or restorations by existing or future extension or restoration mechanisms, including revalidations, reissues, re-examinations or any other post-grant proceedings and extensions (including any supplementary protection certificates and the line) of the Patents described in clauses (a), (b), or (c); and (e) foreign counterparts of any of the foregoing.

1.97 *"Licensed Product"* means any product in oral form, that constitutes, incorporates, comprises, or contains the Licensed Molecule as an active pharmaceutical ingredient, whether or not as the sole active ingredient or in combination with one or more other active pharmaceutical ingredients. Licensed Product includes the Existing Product. For the avoidance of doubt, Licensed Products under distinct MAAs will constitute distinct Licensed Products for purposes of Avenue's diligence obligations pursuant to <u>Section 4</u> and any Milestone Payment calculation (provided that in no event will an sNDA be deemed a distinct MAA from the applicable NDA).

1.98 "Licensed Product Annual Net Sales" is defined in Section 6.3(a).

1.99 "Licensor" is defined in the preamble.

1.100 "Licensor Indemnitees" is defined in Section 10.1.

1.101 "Loss of Market Exclusivity" means, with respect to a specified country in the Territory: (a) the reduction in Net Sales by 50% or more in any twelve (12)month period following the First Commercial Sale in such country of any pharmaceutical product containing the Licensed Molecule which is marketed by any entity or entities other than Avenue, its Affiliates or any Sublicensees (any such product with respect to a given country, a "Generic Product" and the date of first commercial sale of the first such Generic Product in a given country, the "Generic Product Introduction Date") in such country as compared with the twelve (12)-month period immediately prior to the Generic Product Introduction Date (as measured by reputable published data, (e.g., by reference to market share data collected by IQVIA or Symphony Health)); and (b) such reduction in Net Sales is reasonably attributable to sales of such Generic Product.

1.102 "LPLD" means the administration of the last dose of a Licensed Product to the last patient (or volunteer, as relevant) participating in a Clinical Trial.

1.103 "MAA" means a Marketing Authorization Application, NDA, or similar application, as applicable, and all amendments and supplements thereto, submitted to the FDA, EMA, or any equivalent filing in a country or regulatory jurisdiction other than the U.S. or EU with the applicable Regulatory Authority, to obtain marketing approval for a pharmaceutical, biological, or diagnostic product, in a country or in a group of countries.

1.104 "*Manufacture*," or "*Manufacturing*" means all activities related to the manufacture and production of a Licensed Product, including the production of any of the following to the extent used in a Licensed Product: any drug substance produced in bulk form for use as an active pharmaceutical ingredient, drug product, compounded or finished final packaged and labeled form, and in intermediate states, including the following activities: reference standard preparation, purification, formulation, scale-up, packaging, disposition of product, quality assurance oversight, quality control testing (including in-process release and stability testing), storage of product or any component or ingredient thereof and validation activities directly related to all of the foregoing, and data management and recordkeeping related to all of the foregoing. References to a Person engaging in Manufacturing activities will include having any or all of the foregoing activities performed by a Third Party.

1.105 "Major Market Country" means each or any of the U.S., France, Germany, Great Britain, Italy, Spain, or the EU as a whole.

1.106 "*Manufacturing Rights Payment*" means Avenue's payment to Licensor in accordance with <u>Section 4.9(a)</u>, of an amount equal to: (a) if Licensor has experienced a Rejection Event in the two hundred ten (210) calendar days preceding the date of such payment, \$7,500,000; or (b) if Licensor has not experienced a Rejection Event in the two hundred ten (210) calendar days preceding the date of such payment, \$25,000,000.

1.107 "Manufacturing Rights Trigger" means the occurrence of:

(a) termination of the Clinical Supply Agreement in connection with Licensor's uncured material breach thereof or default thereunder, provided that Avenue has a reasonable need to Manufacture the Licensed Product upon such termination (taking into consideration the scope of Avenue's current inventory, existing and forecasted order, alternative sources, and other similar factors);

(b) termination of the Commercial Supply Agreement in connection with Licensor's uncured material breach thereof or default thereunder, provided that Avenue has a reasonable need to Manufacture the Licensed Product upon such termination (taking into consideration the scope of Avenue's current inventory, existing and forecasted order, alternative sources, and other similar factors); or

(c) (i) a Supply Failure, provided that Avenue, its Affiliates, or Sublicensees are not in uncured material breach of the Commercial Supply Agreement (including with respect to all payment obligations thereunder) as of such occurrence, or (ii) in the event that Avenue, its Affiliates, or Sublicensees are in uncured material breach of the Commercial Supply Agreement (including with respect to all payment obligations thereunder) upon the occurrence of a Supply Failure, the curing of such material breach within sixty (60) calendar days following the occurrence of such Supply Failure; provided that in either case ((i) or (ii)), Avenue provides Licensor with written notice of Avenue's election to Manufacture within ninety (90) calendar days of the occurrence of such Supply Failure or the curing of such material breach, as applicable.

Notwithstanding the foregoing, written notice to Licensor pursuant to <u>Section 1.107(c)</u> shall only be required in connection with the first occurrence of an event described in clause (i) or (ii) of <u>Section 1.107(c)</u> (*i.e.*, the second occurrence of an event described in clause (i) or (ii) of <u>Section 1.107(c)</u> shall automatically constitute a Manufacturing Rights Trigger without the provision of such notice.)

1.108 "*Materials*" means excipients and solvents and other chemicals and other raw materials and components, packaging and shipping materials (including vials) and other materials and supplies reasonably necessary to Manufacture Licensed Products.

1.109 "Milestone Event" is defined in Section 6.2.

1.110 "Milestone Payment" is defined in Section 6.2.

1.111 "*Named Patient Sales*" means the sale of a Licensed Product in a given country in the Territory prior to receipt of Marketing Approval of such Product in such country, directly or through an entity that is qualified to distribute unregistered pharmaceutical products in that country, on a "named-patient" basis to meet the special needs of particular patients under the order of a medical practitioner.

1.112 "NDA" means a New Drug Application submitted to the FDA, or any successor application or procedure, as more fully defined in 21 C.F.R. § 314.50 et. seq.

1.113 "*Net Sales*" means the gross amounts invoiced for Licensed Product sold by Avenue, its Affiliates, or its Sublicensees (each a "*Selling Party*") in finished product form, packaged and labeled for sale in arm's length transactions to Third Parties, less the following deductions from such gross amounts:

(a) normal and customary trade, cash and other discounts and allowances actually allowed by the Selling Party and taken by the customer;

(b) credits, price adjustments or allowances actually granted to the customer for damaged goods, returns or rejections of a Licensed Product;

(c) sales taxes or similar taxes, including duties or other governmental charges imposed on the sale of a Licensed Product (including value added taxes or other governmental charges, but excluding any income taxes), to the extent the Selling Party is not otherwise entitled to a credit or a refund for such taxes, duties or payments made;

(d) chargeback payments, rebates, fees, and other adjustments, including those granted on price adjustments, billing errors, reimbursements or similar payments granted or given to wholesalers or other distributors, buying groups, health insurance carriers or other institutions, including those paid in connection with such sales to any governmental entity;

(e) any invoiced amounts which are not collected by the Selling Party, including bad debts (provided that if any such bad debt is subsequently collected, such collected amount will be added to Net Sales);

(f) the portion of administrative fees paid during the relevant time period to group purchasing organizations or pharmaceutical benefit managers relating to such Licensed Product; and

(g) any invoiced freight, shipping, insurance and other transportation charges.

For purposes of determining Net Sales, a Licensed Product will be deemed to be sold when invoiced, and Net Sales does not include and shall be deemed zero with respect to transfers or dispositions provided as samples or Licensed Product for compassionate use, which is different from Named Patient Sales, indigent programs, or similar bona fide arrangements or for pre-clinical or clinical purposes. In the case of any sale of a Licensed Product for consideration other than cash, such as barter or countertrade, Net Sales shall be calculated on the fair market value of the consideration received as agreed by the Parties.

Net Sales, as set forth in this definition, will be calculated by applying the Selling Party's standard accounting practices, in accordance with the Accounting Standards used by the Selling Party, as consistently applied in its respective audited financial statements.

(x) If, on a country-by country basis, any Licensed Product is, or is sold as part of, a Combination Product, Net Sales will be calculated by multiplying the total Net Sales (as described above) of the Combination Product by the fraction:

where "A" is the weighted average gross selling price in such country of such Licensed Product determined in accordance with the Accounting Standards, if sold separately in such country, and "B" is the weighted-average price in such country of such other product(s) containing such other active pharmaceutical or biological ingredients included in the Combination Product (and not the Licensed Molecule contained in such Licensed Product) determined in accordance with the Accounting Standards, if sold separately in such country.

A + B

(y) On a country-by country basis, in the event that: (i) the Licensed Product without the other active pharmaceutical or biological ingredients is sold separately in the same formulation and dosage; and (ii) the other active ingredients in the same formulation and dosage as in the Combination Product are not sold separately, then Net Sales will be calculated by multiplying the total Net Sales (as described above) of the Combination Product by the fraction:

where "A" is the average per unit Net Sales in the applicable country in the Territory of the Licensed Product sold separately in the same formulation and dosage, and "C" is the average per unit Net Sales in the applicable country in the Territory of the Combination Product during the applicable Calendar Quarter.

 $\frac{A}{C}$

(z) In the event that, in a particular country the circumstances in clauses (x) or (y) of this Section 1.112 do not apply: or (i) the Licensed Product without the other active ingredients or devices is not sold separately in the same formulation and dosage during the applicable quarter in such country; and (ii) the other active ingredients in the same formulation and dosage as in the Combination Product are not sold separately during the applicable quarter in such country, then Net Sales for such Combination Product for such country will be calculated by multiplying the total Net Sales (as described above) of the Combination Product by the fraction:

where "A" is the average per unit worldwide Net Sales of the Licensed Product sold separately in the same formulation and dosage, and "C" is the average per unit worldwide Net Sales of the Combination Product during the applicable Calendar Quarter.

1.114 "New Indication" is defined in Section 1.83.

1.115 "Non-Prosecuting Party" is defined in Section 7.3(b).

1.116 "Observer" is defined in Section 6.7(e).

 $\frac{A}{C}$

- 1.117 "Open Terms" is defined in Section 4.7.
- 1.118 "Orange Book" means the FDA list of approved pharmaceuticals titled "Approved Drug Products with Therapeutic Equivalence Evaluations."
- 1.119 "Parties" is defined in the preamble.
- 1.120 "*Party*" is defined in the preamble.

1.121 "*Patents*" means: (a) all patents and patent applications in any country or supranational jurisdiction worldwide; (b) any substitutions, divisionals, continuations, continuations, in-part, reissues, renewals, registrations, confirmations, re-examinations, extensions, supplementary protection certificates, and the like of any such patents or patent applications; (c) any and all patents that have issued or in the future issue from the foregoing patent applications described clauses (a) or (b), including utility models, petty patents, innovation patents, design patents and certificates of invention; and (d) any and all extensions or restorations by existing or future extension or restoration mechanisms, including revalidations, reissues, re-examinations or any other post-grant proceedings and extensions (including any supplementary protection certificates and the line) of the foregoing patents or patent applications ((a), (b) and (c)).

1.122 "Patent Proceeding" is defined in Section 11.6.

1.123 "Person" means any individual, partnership, joint venture, limited liability company, corporation, firm, trust, association, unincorporated organization, governmental authority or agency, or any other entity not specifically listed herein.

1.124 "Phase 1b/2a Clinical Trial" means a Clinical Trial of a Licensed Product for the principal purposes of gaining evidence of the safety and tolerability of, and potential pharmacological activity for, any product, as described in 21 C.F.R. § 312.21(a) (including any such clinical study in any country other than the United States), as further described in 21 C.F.R. § 312.21(b) (including any such clinical study in any country other than the United States).

1.125 "Phase 2/3 Clinical Trial" means a Clinical Trial which is: (a) initiated to determine the safety and efficacy in the target patient population, as described in 21 C.F.R. § 312.21(b) (as amended or any replacement thereof), or a similar clinical study prescribed by the Regulatory Authorities in a foreign country; and (b) converted to a Phase 3 Clinical Trial following an interim analysis of safety and efficacy data generated from the initial patents enrolled in such Clinical Trial

1.126 "Phase 3 Clinical Trial" means a Clinical Trial of a Licensed Product in any country that would satisfy the requirements of U.S. 21 C.F.R. § 312.21(c) and which is intended to: (a) establish that the product is safe and efficacious for its intended use; (b) define contraindications, warnings, precautions, and adverse reactions that are associated with the product in the dosage range to be prescribed; and (c) support Regulatory Approval for such product, or a similar clinical study prescribed by the relevant Regulatory Authorities in a country other than the United States.

1.127 "Price Per Share" means the dollar volume-weighted average price (the "VWAP") for the Common Stock on the NASDAQ Stock Market during the period commencing ten (10) trading days prior to the Effective Date at 9:30:00 a.m., New York City time, and ending ten (10) trading days after the Effective Date at 4:00:00 p.m., New York City time (the "VWAP Period"), as reported by Bloomberg through its "Volume at Price" function or, if the foregoing does not apply, the VWAP of the Common Stock in the over-the-counter market on the electronic bulletin board for the shares of Common Stock during the VWAP Period, as reported by Bloomberg. If the VWAP cannot be calculated for the Common Stock on such date on any of the foregoing bases, the VWAP of such shares of Common Stock on such date shall be the fair market value per share of Common Stock as determined in good faith by Avenue's Board of Directors after consultation with Licensor.

1.128 "*Pricing Approval*" means any approval, agreement, determination, or decision establishing prices that can be charged to consumers for a pharmaceutical or biological product or that will be reimbursed by Governmental Authorities for a pharmaceutical or biological product, in each case, in a country where Governmental Authorities approve or determine pricing for pharmaceutical or biological products for reimbursement or otherwise.

1.129 "PRIority MEdicine" means a scheme launched by the European Medicines Agency (EMA) to enhance support for the development of medicines that target an unmet medical need according to Recital 33 and Article 14(9) of Regulation (EC) No 726/2004.

1.130 "*Priority Review*" means a priority review of, and action upon, a human drug application by the FDA not later than six (6) months after the sixty (60)-day filing date, or eight (8) months after submission, of such application to the FDA, as defined in the FD&C Act and the performance goals set forth in the applicable Prescription Drug User Fee Act commitment letter, or any successor program, and any equivalent program outside of the United States, including Accelerated Assessment.

- 1.131 "Proposed Commercial Supply Agreement" is defined in Exhibit H.
- 1.132 "Prosecuting Party" is defined in Section 7.3(b).

1.133 "Prosecution and Maintenance" or "Prosecute and Maintain" means, with respect to a Patent, the preparation, filing, prosecution, and maintenance of such Patent, as well as re-examinations, reissues, appeals, and requests for patent term adjustments and patent term extensions with respect to such Patent, together with the initiation or defense of interferences, oppositions, post grant review, inter parties review, derivations, re-examinations, post-grant proceedings, and other similar proceedings (or other defense proceedings with respect to such Patent, but excluding the defense of challenges to such Patent as a counterclaim in an infringement proceeding) with respect to the particular Patent, and any appeals therefrom. For clarification, "Prosecution and Maintenance" or "Prosecute and Maintain" shall not include any other enforcement actions taken with respect to a Patent.

- 1.134 "Put Right" is defined in Section 6.7(d).
- 1.135 "Put Shares" is defined in Section 6.7(d).

1.136 "Receiving Party" is defined in Section 8.1.

1.137 "Registration Rights Agreement" is defined in Section 6.7(c).

1.138 "*Registrational Trial*" means: (a) any Clinical Trial that is intended by Avenue, its Affiliate, or a Sublicensee to be submitted for Regulatory Approval in the Territory; or (b) any Clinical Trial based on an agreement or other statement or guidance from the Regulatory Authority in such country that such Clinical Trial is designed to provide data on which a Regulatory Approval will be based.

1.139 "*Regulatory Approval*" means all approvals, licenses, and authorizations of the applicable Regulatory Authority necessary for the marketing and sale of a pharmaceutical, biological, or diagnostic product for a particular Indication in a country or region, including the approvals by the applicable Regulatory Authority of any expansion or modification of the label for such Indication.

1.140 "*Regulatory Authority*" means any national or supranational Governmental Authority, including the FDA in the U.S., the EMA in the EU, Medicines and Healthcare products Regulatory Agency in the United Kingdom, or any health regulatory authority in any country or region that is a counterpart to the foregoing agencies, in each case, that holds responsibility for development and commercialization of, and the granting of Regulatory Approval for, a pharmaceutical, biological, or diagnostic product in such country or region.

1.141 "*Regulatory Cause*" means the existence of regulatory, safety, technical, scientific, efficacy or other circumstances outside the reasonable control of a Party or its Affiliates, including without limitation difficulties associated with patient enrollment, that inhibit or preclude one or more of the steps necessary to allow the achievement of a particular obligation of such Party under this Agreement.

1.142 "*Regulatory Exclusivity*" means, on a country by country and Licensed Product by Licensed Product basis, the ability to exclude any other Person from manufacturing or commercializing a product that could compete with such Licensed Product in such country in the Territory either through data exclusivity rights, orphan drug designation or such other similar rights conferred by a Regulatory Authority in such country.

1.143 "*Regulatory Materials*" means, with respect to a Licensed Product: (a) all the regulatory registrations, applications, authorizations, licenses, and approvals (including approvals of MAAs, supplements and amendments, pre- and post-approvals, Pricing Approvals, and labeling approvals), Regulatory Approvals, and other submissions made to or with any Regulatory Authority for research, development (including the conduct of Clinical Trials), manufacture, or commercialization of a pharmaceutical, biological, or diagnostic product in a regulatory jurisdiction, together with (b) all related correspondence and reports to or from any Regulatory Authority and all documents referenced in the complete regulatory chronology for each MAA, including all drug master files (if any), INDs, BLAs, NDAs, adverse event files, and complaint files, and foreign equivalents of any of the foregoing, and (c) Data contained in any of the foregoing, in each case ((a)–(c)), only to the extent necessary to obtain Regulatory Approval of such Licensed Product.

1.144 "*Rejection Event*" is defined in <u>Section 11.5(a)</u>.

1.145 "*Research*" means any pre-clinical research activities (including drug discovery, identification or synthesis). When used as a verb, "*Research*" means to engage in Research.

- 1.146 "Right of First Negotiation" is defined in Section 2.5.
- 1.147 "ROFN Notice" is defined in Section 2.5.

1.148 "*Royalty Term*" means, with respect to a Licensed Product in the Territory, on a country-by-country basis, the period beginning on the date of First Commercial Sale of such Licensed Product in a country of the Territory and ending on the events occurs the latest: (a) expiration of the last-to-expire Valid Claim of a composition of matter Licensed Patent in such country that covers the composition and formulation of the Licensed Molecule; (b) expiration of the Regulatory Exclusivity in such country; or (c) such Licensed Product has experienced a Loss of Market Exclusivity in such country.

- 1.149 "Safety Agreement" is defined in Section 4.6.
- 1.150 "SBMA Product" means a Licensed Product for the treatment of spinal and bulbar muscular atrophy.
- 1.151 "SEC" is defined in Section 8.3(a)(i).
- 1.152 "Securities Regulators" is defined in Section 8.3(a)(i).
- 1.153 "Selling Party" is defined in Section 1.112.
- 1.154 "Sole Invention" is defined in Section 7.1.
- 1.155 "Sole Patent" is defined in Section 7.1.
- 1.156 "sNDA" means a supplemental New Drug Application, as defined in the FD&C Act and applicable regulations promulgated thereunder.
- 1.157 "Subcommittee" is defined in Section 3.2(a).
- 1.158 "Sublicense Date" is defined in Section 6.4.

1.159 "*Sublicensee*" means, with respect to Avenue, a Third Party or Avenue Affiliate who is granted a sublicense, either directly or indirectly, under the Licensed IP licensed to Avenue by Licensor in accordance with <u>Section 2.2</u>.



1.160 "Sublicense Revenue" means all consideration received by Avenue from a Sublicensee solely as consideration for the grant to such Sublicensee of a sublicense of the rights granted under Section 2.2, but would exclude: (a) with respect to a Calendar Quarter, any sales-based royalties paid by such Sublicensee in excess of the royalty owed to Licensor by Avenue with respect to such sales pursuant to Section 6.3; (b) fair market purchases of equity or debt of Avenue or its Affiliates; (c) fair market payments made in connection with research and development agreements, joint ventures, partnerships or collaboration agreements whereby Avenue or any of its Affiliates is obligated to perform research or development activities for Licensed Products; (d) payments or reimbursements of patent expenses actually incurred or paid by Avenue under this Agreement; (e) payments or reimbursements for documented sponsored research or development activities; and (f) other payments made by such Sublicensee as consideration for Avenue's or its Affiliates' performance of services or provision of goods that are not Licensed Products. By way of clarification, the principal amount of any loan or other extension of credit provided to Avenue or its Affiliates in connection with the grant of a sublicense by Avenue that is other than an arm's-length credit relationship shall be deemed to constitute "Sublicense Revenue."

- 1.161 "Sublicensing Revenue Payment" is defined in Section 6.4.
- 1.162 "Subscription Agreement" is defined in Section 6.7(a).

1.163 "Subsidiary" means, with respect to a Party, any corporation or other business entity: (a) in which such Party owns, directly or indirectly through one (1) or more intermediaries, fifty percent (50%) or more of the voting securities or other voting interest; (b) in which such Party possesses, directly or indirectly, the power to direct, or cause the direction of, the management and policies of such corporation or business entity, whether through ownership of voting securities, by contract, as a general partner, as a manager, or otherwise.

- 1.164 "Supply Expert" is defined in Section 4.10(a).
- 1.165 "Supply Issue" is defined in Section 1.166(a).
- 1.166 "Supply Failure" means:

(a) (i) any failure by Licensor, for two (2) consecutive Calendar Quarters, to supply at least eighty percent (80%) of products ordered by Avenue pursuant to the Commercial Supply Agreement, (ii) any failure by Licensor, for two (2) consecutive Calendar Quarters, to supply at least eighty percent (80%) of products supplied to Avenue pursuant to the Commercial Supply Agreement in conformance with all specifications applicable to such products as set forth in the Commercial Supply Agreement, or (iii) the occurrence of any other event identified as a "Supply Failure" in the Commercial Supply Agreement (each of (i)–(iii), a "*Supply Issue*"); and

(b) if the applicable Supply Issue is determined, pursuant to Section 4.10(a), to have occurred (i) due to Regulatory Cause or a Force Majeure Event, Licensor or its Affiliates (A) fail to resolve such Supply Issue and resume Manufacturing Licensed Products in compliance with the Commercial Supply Agreement within twenty-four (24) months of such determination by the Supply Expert, or (B) fail to continuously use Commercially Reasonable Efforts to resolve such Supply Issue and resume Manufacturing Licensed Products in compliance with the Commercial Supply Agreement within twenty-four (24) months of such determination by the Supply Expert, or (ii) due to reasons other than Regulatory Cause or a Force Majeure Event, Licensor fails to resolve such Supply Issue and resume Manufacturing Licensed Products in compliance with the Commercial Supply Agreement within two (2) Calendar Quarters of such determination by the Supply Expert.

- 1.167 "Term" is defined in Section 11.1.
- 1.168 "Terminated Country" is defined in Section 11.3(a).
- 1.169 "Terminated Product" is defined in Section 11.3(a).
- 1.170 "Territory" means United States of America, Canada, European Union, Great Britain, and Israel.
- 1.171 "*Third Party*" means any Person other than Licensor or Avenue that is not an Affiliate of Licensor or of Avenue. "*Third-Party*" has the corresponding meaning.
 - 1.172 "Third-Party Claim" means any and all suits, claims, actions, proceedings, or demands brought by a Third Party.
 - 1.173 "Third-Party Infringement" is defined in Section 7.5(a).
 - 1.174 "Third-Party License" is defined in Section 6.3(c).
 - 1.175 "Third-Party Royalties" is defined in Section 6.3(c).
 - 1.176 "United States," or "U.S." means the United States of America, including its territories and possessions.

1.177 "Valid Claim" means a claim of a Patent that: (a) has issued and has not expired, lapsed, been cancelled, or abandoned, or been dedicated to the public, disclaimed, or held unenforceable, invalid, unpatentable, revoked, or cancelled by a court or administrative agency of competent jurisdiction in an order or decision from which no appeal has been or can be taken (with respect to U.S. Patents, other than by a petition to the United States Supreme Court for a writ of certiorari), including through opposition, reexamination, reissue, disclaimer, inter partes review, post grant review, post grant procedures, or similar proceedings; or (b) is in a pending patent application that has not been abandoned, disclaimed, canceled or finally disallowed without the possibility of appeal or refiling and which has been pending for no longer than seven (7) years and continues to be prosecuted in good faith.

- 1.178 "VWAP" is defined in Section 1.126.
- 1.179 "VWAP Period" is defined in Section 1.126.

2. License; Right of First Negotiation

2.1 License to Avenue. Subject to the terms and conditions of this Agreement, Licensor hereby grants to Avenue, and Avenue hereby accepts, an exclusive, royalty-bearing, transferrable (pursuant to Section 12.4), and sublicensable (in accordance with Section 2.2) license, under the Licensed IP, to Develop, Commercialize, use, sell, offer for sale, and import and export the Licensed Products in the Field in the Territory.

2.2 Sublicensing.

(a) Avenue shall have the right to grant sublicenses, through multiple tiers of Sublicensees, under the licenses granted under Section 2.1, to Third Parties and Affiliates, provided that (i) any such sublicense shall not be inconsistent with the terms of this Agreement applicable to the exercise of rights under such sublicense or that are reasonably applicable to any Sublicensee, (ii) such sublicense shall include terms that are substantially equivalent to Sections 2.4, 4.1, 4.2 (but only if the Sublicensee is Developing the SBMA Product), <u>4.4</u>, <u>4.5</u>, <u>4.6</u>, <u>4.8</u>, <u>4.11</u>, <u>4.12</u>, <u>4.13</u>, <u>4.14</u>, <u>4.15</u>, <u>6.6(a)</u>, <u>8</u>, <u>11.5</u>, <u>11.6</u>, <u>11.7</u>, and <u>11.8(c)</u> of this Agreement, (iii) the grant of any sublicense shall not relieve Avenue of its obligations under this Agreement, (iv) Avenue shall remain responsible for the acts and omissions of its Sublicensees in connection with such Sublicense, and for such Sublicensee's compliance of Sublicensees with all terms and conditions of this Agreement relevant to such sublicense; (v) a copy of any such executed sublicense agreements (and any amendment(s) thereto) with Sublicensee, irrespective of the tier of such Sublicensee, will be provided to Licensor promptly following execution within ten (10) calendar days thereof, which agreement may be redacted as to terms not reasonably applicable to determining Avenue's compliance with its obligations under this Agreement; and (vi) Avenue may grant sublicenses under this Section 2.2 without such consent if (A) Avenue has achieved the Diligence Milestone set forth in Section 4.2(a), (B) the applicable Sublicensee is a public biotechnology or pharmaceutical company with a market capitalization in excess of five hundred million dollars (\$500,000,000) as of the effective date of such sublicense, or (C) the applicable Sublicensee is a public biotechnology or pharmaceutical company with global annual revenue for its most recently completed fiscal year that is equal to or greater than two hundred million dollars (\$200,000,000), based on most recent data collected or compiled by Evaluate Pharma (or a similar company to the extent Evaluate Pharma's data is not available) and provided that in all instances any such (1) sublicenses shall be entered on an arms-length basis in a manner consistent with all applicable laws, and (2) in the event of a material breach by a Sublicensee of a sublicense hereunder which material breach is also a material breach of a term of this Agreement, Avenue shall enforce, in a commercially reasonable manner, the terms of such sublicense against such Sublicensee with respect to such breach.

(b) For the avoidance of doubt, Licensor shall be entitled to receive its applicable Milestone Payments or royalties based on Annual Net Sales of Licensed Products sold by all Sublicensees under this Agreement.

(c) Subject to the terms and conditions of this Agreement, Avenue, its Affiliates, and Sublicensees may: (i) subcontract Development activities with respect to this Agreement to Third Parties, including Third-Party contract research organizations; (ii) subcontract Commercialization activities with respect to this Agreement to Third Parties, including Third-Party contract sales organizations or distributors whose business includes the marketing, distribution or sale of pharmaceutical products; and (iii) subcontract Manufacturing activities with respect to this Agreement to Third Parties, including Third-Party contract sales organizations or distributors whose business includes the marketing, distribution or sale of pharmaceutical products; and (iii) subcontract Manufacturing activities with respect to this Agreement to Third Parties, including Third-Party contract development or manufacturing organizations whose business includes the Manufacturing of pharmaceutical products Avenue, its Affiliates, and Sublicensees shall be entitled to grant to its or their subcontractors such sublicenses under the licenses granted under this Agreement to perform the subcontracted activities and no such subcontractors shall be considered Sublicensees for purposes of this Agreement.

2.3 <u>Limited Reservation of Rights</u>. Notwithstanding the exclusive nature of the license granted to Avenue pursuant to <u>Section 2.1</u>, Licensor may conduct research activities pertaining to Licensed Product in the Field in the Territory, but only to the extent agreed upon a charter that will be appended to the Agreement as shown in <u>Exhibit C</u> ("*Charter*"). For all activities which are not included or captured in the Charter in the Agreement, Licensor shall seek prior approval in writing by Avenue.

2.4 <u>Right of Reference</u>. Avenue hereby grants Licensor a non-exclusive, royalty-free, sublicensable right to reference Avenue Regulatory Materials and Data for the purpose of obtaining and maintaining Regulatory Approvals of Licensed Products outside of the Territory. Licensor hereby grants Avenue a non-exclusive, royalty-free, sublicensable right to reference AnnJi Regulatory Materials and Data for the purpose of obtaining and maintaining Regulatory Approvals of Licensed Products outside of the Territory.

2.5 <u>Right of First Negotiation</u>. Licensor shall not enter into an agreement with any Third Party to license the Licensed IP with regard to the Development and Commercialization of Licensed Products in the Territory for any Indication or formulation not included in the Field, unless Licensor has first delivered to Avenue written notice offering Avenue to negotiate with Licensor the terms and conditions of an amendment to this Agreement to include such new Indication or formulation outside of the Field, which notice shall identify the specific Indication or formulation for which it would like to enter into such negotiation (Avenue's such right to negotiate herein referred to as "*Right of First Negotiation*," such notice, a "*ROFN Notice*;" such new indication or formulation, the "*Identified New License*")). Avenue shall respond to Licensor within thirty (30) calendar days following its receipt of the ROFN Notice to indicate its interest in exercising its Right of First Negotiation (an "*Exercise Notice*"). If Avenue causes Licensor to receive such an Exercise Notice exercising its Right of First Negotiation gave first on a genement granting Avenue rights to Develop and Commercialize Licensed Products in the Identified New License on terms mutually acceptable to both Parties. In the event that: (a) Avenue does not provide an Exercise Notice within thirty (30) calendar day period, but the Parties do not execute a definitive agreement granting Avenue rights to Develop and Commercialize Licensed Products in the Identified New License on terms mutually acceptable to both Parties. In the event that: (a) Avenue does not provide an Exercise Notice within thirty (30) calendar days of Develop and Commercialize Licensed Products in the Identified New License on terms mutually acceptable to both Parties. In the event that: (a) Avenue does not provide an Exercise Notice within thirty (30) calendar day period, but the Parties do not execute a definitive agreement granting Avenue rights to Develop and Commercialize Licensed

2.6 <u>No Implied License</u>. Except as expressly provided in this <u>Section 2.6</u> or elsewhere in this Agreement, neither Party will be deemed under this Agreement to have been granted any license or other rights to the other Party's Patent or Know-How, either expressly or by implication, estoppel or otherwise.

3. Cost-Covering Study; Joint Steering Committee

3.1 Cost-Covering Study.

(a) Avenue agrees to collaborate with and accordingly requests the service support from Licensor for the performance of the: (i) Phase 1b/2a Clinical Trial (*i.e.*, JM17-201-201 with clinical trial identifier NCT 05517603); and (ii) long-term chronic toxicity studies (six (6)-month GLP in rats (*i.e.*, JM-17-03-23-001) and nine (9)-month GLP in dogs (*i.e.*, JM-17-03-23-002) respectively conducted for the development of Licensed Product in the Territory ("*Cost-Covering Study*").

(b) Avenue has approved and agreed to protocols and all operation plans of Cost- Covering Study, including standard operating procedure, provided by Licensor. Cost-Covering Study is projected be completed no later than March 31, 2025. Any extension request should be provided to Avenue with the reason of such request in writing before March 1, 2025.

(c) Unless otherwise provided in Agreement, Licensor shall conduct the Cost Covering Study until it is completed (*i.e.*, issuance of the final clinical study report), and shall, unless otherwise approved by Avenue in writing, complete the Cost-Covering Study on or before March 1, 2025. Licensor shall not terminate conduct of the Cost Covering Study without Avenue's prior written consent. Without limiting the generality of the foregoing, in connection with conducting the Cost Covering Study, License shall perform the following activities:

(i) For Phase 1b/2a Clinical Trial:

(3)

(A) Clinical project management, including:

(1) Vendor management (monitoring, supervising, and communicating with the vendors, which include CRO for Clinical operation, PD assays, PK bioanalysis, to ensure all activities are executed as planned;

(2) Negotiate & finalize contract and budget terms with each site and monitor spending;

compliance and CRO performance;

- (4) Patient engagement, recruitment, and retention;
- (5) Overall logistics, such as management and transportation of investigational product, biological samples, and ancillary

Sites management: maintaining open communication with PIs and site staff; conducting on-site visits to ensure site

supplies, and;

- (6) Risks detection, mitigation, and management;
- (B) Conduct and/or supervise all trainings required;
- (C) Develop and review study related documents/materials;
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- (D) Revise/amend study protocol when necessary and ensure compliance;
- (E) Perform query resolution related to regulatory and site startup activities;
- (F) Oversee the stability, shipment, and inventory of the investigational product, and;
- (G) Review, confirm and ensure proper reporting any AE/SAE or subject safety issues.
- (ii) For the GLP chronic toxicity studies:
 - (A) Protocol review & finalization; including protocol amendment if needed;
 - (B) Site inspection and/or audit throughout the study period;
 - (C) Regular monitoring and discussion of study progress and findings as needed;
 - (D) Analytical method transfers for TK sample analysis;
 - (E) Raw data review;
 - (F) Draft report review; and
 - (G) Report finalization.

(d) In the event that any Know-How is generated in connection with the Cost-Covering Study ("*Cost-Covering Study Know-How*"), Licensor shall promptly disclose such Cost-Covering Study Know-How to Avenue, including copies of any data, results, or reports generated in connection with the Cost-Covering Study.

(e) For the duration of the Cost-Covering Study, Licensor shall, within thirty (30) calendar days of the end of each Calendar Quarter, deliver a report to Avenue regarding the Cost-Covering Study (each such report, a "*Cost-Covering Study Report*"). Each Cost-Covering Study Report shall include (at minimum) the following, each in reasonable detail: (i) the status of the Cost-Covering Study and any progress made during the prior Calendar Quarter; (ii) to the extent not previously provided to Avenue, any data or results generated during the prior Calendar Quarter; (iii) any problems or issues with the Cost-Covering Study; and (iv) any other information regarding the Cost-Covering Study requested by Avenue. Each Cost-Covering Study Report will be presented for discussion at the next meeting of the JSC.

(f) The Cost-Covering Study will be a part of Development Plan, provided that in no event will the Cost-Covering Study be discontinued, suspended, terminated, amended, or otherwise modified except: (i) by the mutual written consent of the Parties; or (ii) to the extent required by a Regulatory Authority.

(g) Licensor shall notify Avenue immediately upon learning of the occurrence of any serious and unexpected adverse event or any other event that Licensor believes may suggest a significant risk to a Cost-Covering Study subject or that may impair the integrity or validity of the Cost-Covering Study. Any such notification shall contain a summary of the serious and unexpected adverse event, shall be made within seventy-two (72) hours of such event, and shall be delivered in accordance with <u>Section 12.2</u>. Licensor shall also provide such additional information as Avenue may reasonably request.

(h) Licensor will keep all scientific records and data related to Licensor's performance of the Cost-Covering Study, in sufficient detail and in a good scientific and compliant manner appropriate for patent and regulatory purposes, and which will fully and properly reflect all work done and results achieved in the performance of the Cost-Covering Study. Such records will be kept for a period of at least five (5) years after their creation. During the Term, Avenue will have the right, at Avenue's expense, to appoint an independent third party pre-approved by Licensor in writing, to inspect and copy (or request that Licensor or its Affiliates copy) all records maintained by Licensor or its Affiliates in connection with the work done and results achieved in the performance of the Cost-Covering Study, but solely to the extent to which such records are reasonably necessary to confirm Licensor's compliance with this Agreement. Inspections pursuant to this Section 3.1(h) shall occur no more often than once per calendar year, shall last no longer than one (1) day, and shall occur during Licensor's normal business hours.

(i) Licensor shall ensure that the facilities, including any equipment, for the Cost-Covering Study are adequate for the proper conduct of the Cost-Covering Study. Licensor may enter into agreements with third parties, such as laboratory service providers, as may be necessary to perform Cost-Covering Study, but only upon prior written notice to Avenue.

(j) In consideration of the Cost-Covering Study (including the supply of any Licensed Product required for Licensor's performance of the Cost-Covering Study), Avenue shall pay Licensor the installment payments set forth in <u>Table 3.2(h)</u>.

Table 3.2(h)

Installment	Amount	Date
1	\$[***]	Within 120 Calendar Days of Effective Date
2	\$[***]	By December 31, 2023
3	\$[***]	By March 31, 2024
4	\$[***]	By June 30, 2024
5	\$[***]	By September 30, 2024
6	\$[***]	Within 30 calendar days of Avenue's receipt of the final clinical study report for the Cost- Covering Study

(k) Within thirty (30) calendar days of AnnJi's receipt of the final clinical study report for the Cost-Covering Study, Licensor will assign, and hereby does assign, to Avenue the IND applicable to the Cost-Covering Study.

3.2 Joint Steering Committee.

(a) JSC Membership. Promptly, and in any event within sixty (60) calendar days following the Effective Date, the Parties will establish a joint steering committee (the "JSC") to oversee and coordinate the activities of the Parties under this Agreement with respect to the Development and Commercialization plans of Licensed Product. The JSC shall comprise two (2) employee representatives of Licensor and three (3) representatives of Avenue. Subject to the foregoing, each Party shall appoint its respective representatives to the JSC from time to time, and may change its representatives, in its sole discretion, effective upon notice to the other Party designating such change. One (1) of the members of the JSC appointed by Avenue will be designated the JSC chairperson (the "JSC Chair"). The JSC Chair shall be responsible for calling meetings of the JSC, circulating agenda and performing administrative tasks required to assure efficient operation of the JSC. The JSC may from time to time establish one (1) or more subcommittees (each, a "Subcommittee"), to perform certain duties and exercise certain powers of the JSC as expressly set forth in this Agreement as delegated by the JSC to such Subcommittee (the JSC and any Subcommittee are each referred to herein as a "Committee"). The JSC and each Subcommittee will be promptly disbanded following the end of the last Milestone Event.

(b) JSC Meetings. The JSC will meet once every Calendar Quarter or as otherwise mutually agreed by the Parties. Unless otherwise agreed by the JSC, the JSC shall meet by means of videoconference or other similar means. The JSC Chair or his/her designee will keep minutes of each JSC meeting that record in writing all decisions made, action items assigned or completed and other appropriate matters. The JSC Chair or his/her designee will send meeting minutes to all members of the JSC promptly after a meeting for review. Each member will have five (5) Business Days from receipt in which to comment on and to approve or provide comments to the minutes (such approval not to be unreasonably withheld, conditioned or delayed). If a member, within such time period, does not notify the JSC Chair that he/she does not approve of the minutes, the minutes will be deemed to have been approved by such member. Each Party's JSC meetings, creating the draft of minutes or distributing the minutes.

- (c) <u>JSC Functions</u>. The JSC's responsibilities are as follows:
 - (i) Overseeing the Development and Commercialization of the Licensed Product(s) hereunder;

(ii) Resolving matters presented to it by any Subcommittee that are within the scope of responsibilities delegated to such Subcommittee by the JSC or otherwise pursuant to this Agreement; and

(iii) Fulfilling such other responsibilities as may be allocated to the JSC under this Agreement or by mutual written agreement of the Parties.

(d) If, despite using reasonable efforts, the JSC does not reach consensus on any matter within its decision-making authority within a period of fourteen (14) days (or such other period as the Parties may agree in writing) after it has met and attempted to reach such consensus, then Avenue shall have the final decision-making authority with respect to such matter.

(e) <u>Scope of Committee Authority</u>. For clarity and notwithstanding the creation of the JSC, each Party will retain the rights, powers and discretion granted to it hereunder, and none of the JSC will be delegated or vested with such rights, powers or discretion unless such delegation or vesting is expressly provided herein, or the Parties expressly so agree in writing. The JSC will not have the power to: (a) resolve any Dispute regarding the existence or amount of any payment owed under this Agreement; or (b) amend, waive or modify any term of this Agreement, and no decision of the JSC will be in contravention of any terms and conditions of this Agreement. It is understood and agreed that issues to be formally decided by the JSC are strictly limited to those specific issues that are expressly provided in <u>Section 3.2(c)</u> and the Disputes which relate to subjects other than those set forth in <u>Section 3.2(c)</u> will be handled according to <u>Section 12.7(c)(iii)</u>.

(f) Once a Committee is disbanded, such Committee will have no further obligations under this Agreement, and thereafter, each Party will designate a contact person for the exchange of information under this Agreement. In the event a Committee is disbanded, any decisions that are designated under this Agreement as being subject to the review or approval of such Committee will be made by the Parties directly, subject to the other terms and conditions of this Agreement.

4. Diligence and Performance

4.1 <u>Generally</u>. Avenue will use Commercially Reasonable Efforts to Develop and Commercialize the SBMA Product in the Territory, unless stated otherwise herein.

4.2 <u>Milestones for the SBMA Product</u>. Avenue will achieve the following for the SBMA Product (each, a "Diligence Milestone"):

(a) administration of the first dose of SBMA Product to the first patient in a Phase 2/3 Clinical Trial in the United States within four (4) years following the Effective Date;

- (b) filing of an MAA for the SBMA Product within six (6) years following the Effective Date; and
- (c) First Commercial Sale of the SBMA Product within one (1) year following the first Regulatory Approval of the SBMA Product in any Major Market

If Avenue believes in good faith that it will be unable to timely achieve a specific Diligence Milestone after: (i) consultation with objective, qualified and competent advisor that meets the qualifications set forth in <u>Exhibit G</u>, subject to the approval of each Party, such approval not to unreasonably withheld or delayed; and (ii) such approved advisor's determination of the existence of Regulatory Cause that inhibits or precludes one or more of the steps necessary to allow the achievement of such Diligence Milestone, then Avenue shall promptly provide Licensor with reasonable documentation supporting the Regulatory Cause, and all Diligence Milestones will automatically be extended by one (1) year after Licensor's receipt of such documentation. Avenue may elect to further extend the deadline for the achievement of all Diligence Milestones (other than the Diligence Milestone specified in <u>Section 4.2(c)</u>) by up to two (2) successive twelve (12)-month extension periods by making a lump-sum payment to Licensor of \$500,000 (an "*Extension Payment*") per each such extension period prior to the commencement of each such extension period if (a) Avenue can demonstrate the existence of Regulatory Cause; and (b) Avenue continues to use Commercially Reasonable Efforts to Develop and (subsequent to the First Commercial Sale of the SBMA Product and solely with respect to the Diligence Milestone described in <u>Section 4.2(c)</u>) Commercialize Licensed Products.

4.3 <u>Development of Licensed Products</u>. Subject to the terms and conditions of this Agreement, Avenue shall undertake Development activities to Develop at least one Licensed Product in the Field pursuant to the Development Plans.

4.4 <u>Development Plans</u>. Avenue, its Affiliates, or its Sublicensees shall prepare and update Development Plans for Licensed Products in the Field under this Agreement and Avenue shall share such plans with JSC. Except for the first Development Plan, which shall be provided three (3) calendar months after the Effective Date, an updated Development Plan will be presented by Avenue to the JSC for approval by the JSC at least two (2) months prior to the end of each Calendar Year. Each Development Plan will set forth the plan for Development of each Licensed Products in the Field over at least three (3) Calendar Years and will include: (a) strategies and timelines for Developing and obtaining Approvals for the Licensed Products in the Field in the Territory; and (b) the allocation of responsibilities for Development activities between Avenue, or Third-Party service providers to the extent provided by the applicable Development Plan. For clarity, nothing in this <u>Section 4.4</u> shall create any rights for Affiliates or Sublicensees to participate in or become members of the JSC.

4.5 Development Reports.

Country.

(a) Within sixty (60) calendar days after the end of each Calendar Quarter, Avenue shall provide the JSC with a written report summarizing the material activities undertaken during such Calendar Quarter in connection with each Development Plan, as applicable. Avenue shall cause its Sublicensees to provide all information necessary for such Development reports in accordance with this <u>Section 4.5</u>.

(b) Upon First Commercial Sale of the SBMA Product in the U.S. or EU, <u>Section 4.5(a)</u> shall be automatically amended by replacing each instance of the words "Calendar Quarter" with the words "Calendar Year."

(c) Avenue's obligation to provide reports under this <u>Section 4.5</u> shall terminate upon such time as there are no longer any ongoing Clinical Trials with respect to any Licensed Product.

4.6 Safety Agreement. No later than one year before the First Commercial Sale, the Parties will enter into a written agreement setting forth worldwide safety and pharmacovigilance procedures for the Parties with respect to the Licensed Products (the "Safety Agreement"). The Safety Agreement will describe the obligations of both Parties with respect to the coordination of collection, investigation, reporting, and exchange of information between the Parties concerning any adverse event experienced by a subject or, in the case of non-clinical studies, an animal in a toxicology study, and the seriousness thereof, whether or not determined to be attributable to any Licensed Product, including any such information received by either Party from a Third Party (subject to receipt of any required consents from such Third Party) and will be sufficient to permit each Party and its Affiliates, licensees, or Sublicensees (as applicable) to comply with its legal obligations with respect thereto, including the obligations as the owner or holder of Regulatory Approvals and Pricing Approvals for such Licensed Product as applicable. The Safety Agreement will also detail each Party's responsibilities with respect to recalls and withdrawals of the Licensed Products inside and outside of the Territory. If required by changes in Applicable Law, the Parties will make appropriate updates to the Safety Agreement. Each Party will comply with its respective obligations under the Safety Agreement, each Party and its Affiliates, licensees will have the right to disclose information related to the safety of one or more Licensed Products. The Parties will cooperate with each other to address any safety-related inquiries or requests for safety assessment by any Regulatory Authority, including providing any necessary data or information in a timely manner. To the extent that there is a conflict between the terms of this Agreement and the terms of the Safety Agreement, the terms of the Safety Agreement will govern with respect to the subject

4.7 <u>Commercial Supply</u>. Upon Avenue's written request, which shall be no sooner than one hundred eighty (180) calendar days prior to the date Avenue, its Affiliates, and Sublicensees reasonably expects to file its first MAA for a Licensed Product (the "*Commercial Agreement Request*"), the Parties shall negotiate in good faith and enter into a supply agreement (the "*Commercial Supply Agreement*") pursuant to which Licensor shall Manufacture and supply to Avenue, its Affiliates and Sublicensees commercial quantities of finished, packaged Licensed Products for sale and distribution in the Territory. Such Commercial Supply Agreement shall: (a) provide that the purchase price for Licensed Product supplied thereunder shall be no more than one hundred thirty percent (130%) of Licensor's Cost of Goods; and (b) contain reasonable and customary commercial supply terms, including provisions addressing forecasting and ordering, delivery, payment, acceptance and rejection procedures, regulatory assistance, warranties, indemnification, limitations of liability and quality assurance and control. In the event that the Parties fail to execute the Commercial Supply Agreement within one hundred eighty (180) calendar days of the Commercial Agreement Request, then any terms of the inchoate Commercial Supply Agreement on which the Parties have not mutually agreed (such terms, "*Open Terms*") shall be submitted for resolution via binding arbitration upon the expiration of such one hundred eighty (180)-day period, as described in <u>Exhibit H</u>.

4.8 <u>Commercial Launch Plan</u>. Prior to the First Commercial Sale of a Licensed Product in a Major Market Country, Avenue or its Sublicensees will furnish Licensor with a plan summarizing Avenue or its Sublicensees' launch strategy for such Licensed Product in such Major Market Country.

4.9 Manufacturing Rights.

(a) Upon: (i) Avenue's payment of the Manufacturing Rights Payment, which payment shall be made upon six (6) months' prior written notice to Licensor, and which notice may be provided by Avenue at any time after the filing of an MAA for a Licensed Product by Avenue, its Affiliate, or Sublicensees; or (ii) the occurrence of a Manufacturing Rights Trigger, in either case ((i) or (ii)), this Agreement will automatically be amended as set forth in <u>Section 4.9(b)</u> and <u>Section 4.9(c)</u>, and Licensor will provide (at Avenue's request and expense) reasonable assistance in enabling Avenue or its Affiliates, Sublicensees, or vendors to Manufacture Licensed Product, including by transferring all applicable Know-How relating to Manufacturing with additional one-time cash payment of \$5,000,000. For clarity, Licensor shall have no obligation to commence any such transfer of Know-How prior to receipt of the Manufacturing Rights Payment, if applicable, and such \$5,000,000 payment pursuant to this <u>Section 4.9(a)</u>.

(b) Upon: (i) Avenue's payment of the Manufacturing Rights Payment; or (ii) the occurrence of a Manufacturing Rights Trigger, in either case ((i) or (ii)), Section 2.1 shall be amended and restated in its entirety as follows: "Subject to the terms and conditions of this Agreement, Licensor hereby grants to Avenue, and Avenue hereby accepts, an exclusive, royalty-bearing, transferrable (pursuant to <u>Section 12.4</u>), and sublicensable (in accordance with <u>Section 2.2</u>) license, under the Licensed IP, to Develop, Commercialize, Manufacture, use, sell, offer for sale, and import and export the Licensed Products in the Field in the Territory."

(c) Upon: (i) Avenue's payment of the Manufacturing Rights Payment; or (ii) the occurrence of a Manufacturing Rights Trigger, in either case ((i) or (ii)), <u>Section 1.92</u> shall be amended and restated in its entirety as follows: "*Licensed Know-How*" means (a) all Know-How Controlled by Licensor or its Affiliates as of the Effective Date and that is or would be reasonably necessary or useful to Develop, Commercialize, or otherwise use Licensed Products; (b) all Cost-Covering Study Know-How; and (c) all Know How Controlled by Licensor or its Affiliates as of the occurrence of the events described clauses (i) or (ii) of <u>Section 4.9(c)</u>, as applicable, that is necessary to Manufacture the Licensed Products."

4.10 Supply Issues.

(a) Upon the occurrence of any Supply Issue, the Parties will meet as promptly as possible, but in any event within fifteen (15) calendar days, to determine whether the occurrence of such Supply Issue was due to either: (i) Regulatory Cause; or (ii) reasons other than Regulatory Cause. If the Parties cannot mutually agree on such determination within thirty (30) Business Days, then Avenue shall appoint an independent expert on the manufacturing of pharmaceutical products in the applicable jurisdiction(s) (the "*Supply Expert*"), which appointment shall be subject to Licensor's reasonable approval, and the Supply Expert shall promptly make such determination. The Parties will cooperate with any reasonable request of the Supply Expert in making such determination, and such determination shall be final and binding upon the Parties.

(b) If the Supply Expert determines pursuant to Section 4.10(a) that the occurrence of a Supply Issue was due to reasons other than Regulatory Cause, then the Supply Expert shall monitor and advise both Parties on Licensor's efforts to rectify such Supply Issue for at least two (2) Calendar Quarters.

(c) If the Parties mutually agree pursuant to Section 4.10(a) that the occurrence of a Supply Issue was due to reasons other than Regulatory Cause, then Avenue shall appoint a Supply Expert, which appointment shall be subject to Licensor's reasonable approval, and the Supply Expert shall monitor and advise both Parties on Licensor's efforts to rectify such Supply Issue for at least two (2) Calendar Quarters.

(d) With respect to any monitoring by the Supply Expert pursuant to Sections 4.10(b) or 4.10(c), Licensor shall: (i) reasonably cooperate with the Supply Expert; (ii) allow the Supply Expert access to Licensor's facilities and personnel; (iii) upon the Supply Expert's request, cause any relevant third parties to allow the Supply Expert the same level of access and information to which Licensor is be entitled; and (iv) reasonably consider any suggestions of the Supply Expert regarding the resolution of the Supply Issue.

(e) The appointment of the Supply Expert will be conditioned upon the Supply Expert's execution of a customary nondisclosure agreement, and all communications between either Party and the Supply Expert shall be deemed the Confidential Information of both Parties. Licensor shall be responsible for the reasonable costs of retaining the Supply Expert pursuant to this Section 4.10.

4.11 <u>Restriction on Bundling in the Territory.</u> If Avenue, its Affiliates, or its Sublicensees sell a Licensed Product in the Field in the Territory to a customer who also purchases other products or services from any such entity, Avenue agrees not to, and to require its Affiliates and Sublicensees not to, bundle or include any Licensed Product as part of any multiple product offering or discount or price the Licensed Products in a manner that is reasonably likely to disadvantage a Licensed Product in order to benefit sales or prices of other products offered for sale by a Party or its Affiliates to such customer.

4.12 <u>Market Exclusivity Extensions</u>. Avenue, its Affiliates, or its Sublicensees shall use Commercially Reasonable Efforts to maintain, and, to the extent available, legally extend, the period of time during which, in any Major Market Country or Canada: (a) any Party has the exclusive legal right, whether by means of a patent right or through other rights granted by a Governmental Authority in such country, to Commercialize a Licensed Product in the Field in such country; and (b) no Generic Product is marketed in such country.

4.13 Restriction on Competition.

(a) During the Term, neither Avenue nor any of its respective Subsidiaries or Sublicensees, either alone or through any Third Party directly or indirectly, shall Develop or Commercialize any Competing Product in the Field in the Territory without Licensor's written consent. In the event that the Agreement terminates for any legitimate reason, then for a period of eighteen (18) months after such termination, Avenue, its Subsidiaries, or Sublicensees shall not, directly or indirectly, Develop or Commercialize any Competing Product in the Field in any part of the Territory.

(b) During the Term, Licensor, its Affiliates, or its Sublicensees shall not, directly or indirectly, Develop or Commercialize the Licensed Product in Alzheimer's Disease or androgenic alopecia in the Territory without Avenue's written consent. In the event that the Agreement terminates for any legitimate reason, then for a period of eighteen (18) months after such termination, Licensor, its Affiliates, or its Sublicensees shall not, directly or indirectly, Develop or Commercialize the Licensed Product in Alzheimer's Disease or androgenic alopecia in the Territory.

4.14 <u>Restriction on Parallel Import</u>. Avenue shall neither, and shall require its Affiliates and Sublicensees to neither, whether directly or indirectly through a Third Party: (a) sell or promote a Licensed Product outside of the Field or outside of the Territory; nor (b) export or distribute a Licensed Product outside of the Territory other than for Commercialization in the Field in the Territory.

4.15 <u>Records and Information</u>. Avenue and its Affiliates will keep scientific records related to Avenue's Development and (if applicable) Manufacturing efforts with respect to Licensed Product in the Field, in sufficient detail and in a good scientific and compliant manner appropriate for patent and regulatory purposes, and which will fully and properly reflect all work done and results achieved in the performance of the Development and (if applicable) Manufacturing with respect to the Licensed Product in the Field under this Agreement. Such records will be kept for a period of at least five (5) years after their creation, or such longer period as required by Applicable Law. During the Term, Licensor will have the right, at Licensor's expense, to appoint an independent third party pre-approved by Avenue in writing, to inspect and copy (or request that Avenue or its Affiliates copy) all records maintained by Avenue or its Affiliates in connection with the work done and results achieved in the performance of Development and (if applicable) Manufacturing under this Agreement, but solely to the extent to which such records are reasonably necessary to confirm Avenue's compliance with this Agreement. Inspections pursuant to this <u>Section 4.15</u> shall occur no more often than once per calendar year, shall last no longer than one (1) day, and shall occur during Avenue's normal business hours.

5. Clinical Supply

5.1 <u>Purchase and Sale of Product</u>. During the Term of this Agreement, Licensor shall (a) have Licensed Product Manufactured; and (b) sell and deliver to Avenue one hundred percent (100%) of the total requirements for Licensed Products in the Territory of Avenue, its Affiliates and Sublicensees for any Development activities after Phase 1b/2a Clinical Trial, including, Phase 2/3 Clinical Trial and Phase 3 Clinical Trial. The Parties agree that additional details regarding such clinical supply will be agreed in a separate clinical supply agreement, consistent with the terms and conditions set forth in <u>Exhibit F</u>, to be negotiated in good faith and executed by the Parties no later than March 31, 2024 (the "*Clinical Supply Agreement*").

6. Financial Terms

6.1 Upfront Payment. Avenue shall pay to Licensor: (a) \$2,000,000 within sixty (60) calendar days of the Effective Date; and (b) \$1,000,000 within one hundred eighty (180) calendar days following the Effective Date.

6.2 <u>Milestones</u>. Subject to the terms of this <u>Section 6.2</u> and <u>Section 6.5</u>, upon the achievement of each milestone event set forth in the columns labeled "Milestone Event" in <u>Table 6.2(a)</u> and <u>Table 6.2(b)</u> (each such event, a "*Milestone Event*"), with respect to the Licensed Product achieving such Milestone Event under this Agreement, Avenue shall provide Licensor with a written notice within ten (10) calendar days of the achievement of a Milestone Event. Avenue shall pay to Licensor the corresponding amounts set forth beside such Milestone Event in the columns labeled "Milestone Payment" in <u>Table 6.2(a)</u> and <u>Table 6.2(b)</u> (each such amount, a *Milestone Payment*"). Notwithstanding the foregoing, in the event that any Milestone Events occur prior to the execution of the Clinical Supply Agreement, the corresponding Milestone Payments shall not be owed or payable to Licensor unless and until the Parties execute the Clinical Supply Agreement, whereupon any and all such Milestone Payments will be due to Licensor within thirty (30) days of such execution.

(a) <u>Development Milestones</u>.

<u>Table 6.2(a)</u>

Milestone Event		Milestone Payment
(i)	LPLD of a Clinical Trial in the United States sponsored by or on behalf of Avenue	\$[***]
(ii)	Thirty (30) days after filing an IND with the FDA for the first Registrational Trial in the United States	\$[***]
(iii)	FPFD of a Registrational Trial in the United States sponsored by or on behalf of Avenue	\$[***]
(iv)	FPFD of a Registrational Trial in the European Union sponsored by or on behalf of Avenue	\$[***]
(v)	First submission by Avenue or Sublicensee of an NDA for a Licensed Product to the FDA	\$[***]
(vi)	Following First FDA Approval, the first Submission by Avenue or Sublicensee of an sNDA to the FDA with respect to a New Indication and/or new target population (the " <i>First Licensed Product sNDA</i> ")	\$[***]
(vii)	First FDA approval of an NDA submitted by Avenue or Sublicensee with respect to a Licensed Product (" <i>First FDA Approval</i> ")	\$[***]
(viii)	FDA approval of the First Licensed Product sNDA	\$[***]
(ix)	FDA approval of an NDA submitted by Avenue or Sublicensee with respect to a second Licensed Product	\$[***]
(x)	First submission by Avenue or Sublicensee of an MAA for a Licensed Product to the EMA	\$[***]
(xi)	Following First EMA Approval, the first Submission by Avenue or Sublicensee of an MAA to the EMA for a Label Expansion (" <i>First Product EMA Label Expansion</i> ")	\$[***]
(xii	First EMA approval of an MAA submitted by Avenue or Sublicensee with respect to a Licensed Product (" <i>First EMA Approval</i> ")	\$[***]
(xiii)	EMA approval of the Licensed Product EMA Label Expansion	\$[***]
(xiv	EMA approval of an MAA by Avenue or Sublicensee with respect to a second Licensed Product	\$[***]
(xv)	EMA approval of an MAA or FDA approval of an NDA, in each case by Avenue or Sublicensee, for which Avenue or its Sublicensee has received Breakthrough Designation, Accelerated Approval, or Priority Review	\$[***]

(b) Commercial Milestones.

Table 6.2(b)

	Milestone Event	Milestone Payment
(i)	Annual Net Sales equal to or greater than \$75,000,000 and less than \$125,000,000	\$[***]
(ii)	Annual Net Sales equal to or greater than \$125,000,000 and less than or equal to \$200,000,000	\$[***]
(iii)	Annual Net Sales equal to or greater than \$200,000,000 and less than or equal to \$300,000,000	\$[***]
(iv)	Annual Net Sales equal to or greater than \$300,000,000 and less than or equal to \$500,000,000	\$[***]
(v)	Annual Net Sales equal to or greater than \$500,000,000 and less than or equal to \$750,000,000	\$[***]
(vi)	Annual Net Sales equal to or greater than \$750,000,000	\$[***]

In the event more than one of the Milestone Events set forth in <u>Table 6.2(b)</u> is met during a single Calendar Year, the highest milestone will be paid in that Calendar Year and other earned but unpaid milestones will be accrued and paid out in the subsequent Calendar Year.

(c) Each Milestone Payment shall be payable a maximum of one (1) time as set forth in <u>Table 6.2(a)</u> and <u>Table 6.2(b)</u>, regardless of the number of times the applicable Milestone Event is achieved (*i.e.*, a maximum of fifteen (15) Milestone Payments may be made pursuant to <u>Section 6.2(a)</u> and a maximum of six (6) Milestone Payments may be made pursuant to <u>Section 6.2(b)</u>, and no Milestone Payment shall be due hereunder for subsequent or repeated achievement of any such Milestone Event).

(d) <u>Payment of Milestone Payments</u>. Avenue shall pay Licensor a Milestone Payment within thirty (30) calendar days following the date that the applicable Milestone Event has been achieved.

6.3 Royalties.

(a) <u>Royalty Rates</u>. Subject to the terms of this <u>Section 6.3</u> and <u>Section 6.5</u>, Avenue shall pay Licensor royalties on Annual Net Sales during the applicable Royalty Term equal to the Annual Net Sales of the applicable Licensed Product multiplied by the applicable royalty rate in the column titled "Royalty Rate" in <u>Table 6.3(a)</u> which is set forth beside such portion of Annual Net Sales during the applicable Royalty Term for each such Licensed Product (the "*Licensed Product Annual Net Sales*"), which royalties shall be paid in accordance with <u>Section 6.3(d)</u>.

Table 6.3(a)

	Licensed Product Annual Net Sales	Royalty Rate
(i)	Aggregate Annual Net Sales less than or equal to \$50,000,000	[***]%
(ii)	Aggregate Annual Net Sales equal to or greater than \$50,000,000 and less than \$150,000,000	[***]%
(iii)	Aggregate Annual Net Sales equal to or greater than \$150,000,000 and less than \$300,000,000	[***]%
(iv)	Aggregate Annual Net Sales equal to or greater than \$300,000,000	[***]%

(b) <u>Royalty Term</u>. Avenue's royalty obligations to Licensor under <u>Section 6.3(a)</u> shall apply, on a country-by-country and Licensed Product-by-Licensed Product basis, only during the applicable Royalty Term for such Licensed Product in such country. Following the expiration of the applicable Royalty Term for a given Licensed Product in a given country: (a) no further royalties shall be payable with respect to sales of such Licensed Product in such country; and (b) <u>Section 11.2</u> shall apply with respect to such Licensed Product in such country.

(c) <u>Royalty Reductions</u>. In the event Avenue reasonably determines that the research, development, commercialization or other exploitation of a Licensed Product under this Agreement would infringe or misappropriate a Third Party's Patents or Know-How absent a license from such Third Party (each such Third-Party license is referred to herein as a "*Third-Party License*"), Avenue shall have the right to deduct [***] percent ([***]%) of any royalties or similar payments paid to any such Third Party for a license to such Patents or Know-How (such consideration, "*Third-Party Royalties*") from any payments due to Licensor under this Agreement, provided that such amounts payable to Licensor would not be reduced, with respect to any Calendar Quarter, below [***] percent ([***]%) of the amounts otherwise due to Licensor with respect to such Calendar Quarter without such offset. Any Third-Party Royalties not deducted in a Calendar Quarter would be carried forward to subsequent Calendar Quarters until deducted.

(d) <u>Payment of Royalties and Sublicense Revenue Report</u>. Avenue shall: (a) within sixty (60) calendar days following the end of each Calendar Quarter in which a royalty payment pursuant to <u>Section 6.3(a)</u> or <u>Section 6.4</u> accrues, provide to Licensor a report specifying, for such Calendar Quarter (i) the Annual Net Sales of Licensed Products that are subject to such royalty, (ii) the applicable royalty rate under <u>Section 6.3(a)</u>, (iii) the royalty calculation and royalties payable in Dollars, (iv) any reduction(s) to the royalty applied by Avenue pursuant to <u>Section 6.3(c)</u>, and (v) the Sublicensing Revenue generated during such Calendar Quarter (if any) and a calculation of the Sublicensing Revenue Payment owed by Avenue as a result; (b) make the royalty payments owed to Licensor that are attributable to Avenue's Net Sales within sixty (60) calendar days from the end of the Calendar Quarter in which such payment accrues; and (c) make the royalty payments owed to Licensor that are attributable to Net Sales by Sublicensees, and Sublicensing Revenue Payments owed to Licensor under this Agreement in accordance with such royalty report, in arrears, within fifteen (15) calendar days after Avenue's receipt of such amounts from its Sublicensees, but in no event more than ninety (90) calendar days after the expiration of such Calendar Quarter.

6.4 <u>Sublicense Revenue</u>. Subject to the terms of this <u>Section 6.4</u> and <u>Section 6.5</u>, Avenue shall pay Licensor the applicable percentage of Sublicense Revenue received from a Sublicensee based on the effective date (the "*Sublicense Date*") of the agreement under which Sublicense Revenue is received by Avenue, as set forth in <u>Table 6.4</u> (each such payment, a "*Sublicensing Revenue Payment*").

Table 6.4

	Sublicense Date	Sublicensing Revenue Percent
(a)	Prior to First Commercial Sale of any Licensed Product in the U.S. or EU	10%
(b)	On or after First Commercial Sale of any Licensed Product in the U.S. or EU and prior to the fifth (5th) anniversary of the First Commercial Sale of any Licensed Product in the U.S. or EU	5%
(c)	On or after the fifth (5th) anniversary of First Commercial Sale of any Licensed Product in the U.S. or EU	2.5%

6.5 Additional Payment Terms.

(a) <u>Currency; Conversion</u>. All payments hereunder shall be made in Dollars by wire transfer to a bank designated in writing by Licensor no later than the date by which the applicable payment must be made. Conversion of sales recorded in local currencies to Dollars shall be performed at the exchange rate stated in *The Wall Street Journal*, New York Edition at the close of the last Business Day of the Calendar Quarter to which such royalty payment relates.

(b) Taxes; Withholding.

(i) <u>Generally</u>. Each Party shall pay any and all income taxes levied on account of all payments it receives under this Agreement, except as otherwise provided in this <u>Section 6.5(b)</u>.

(ii) <u>Tax Withholding</u>. Each Party shall be entitled to deduct and withhold from any amounts payable under this Agreement such taxes as are required to be deducted or withheld therefrom under any provision of Applicable Law. The Party that is required to make such withholding shall: (A) deduct those taxes from such payment; (B) timely remit the taxes to the proper taxing authority; and (C) send evidence of the obligation, together with proof of tax payment, to the other Party on a timely basis following such tax payment. Each Party shall reasonably cooperate with the other Party in claiming refunds or exemptions from such deductions or withholdings under any relevant agreement or treaty which is in effect to ensure that any amounts required to be withheld pursuant to this <u>Section 6.5(b)(ii)</u> are reduced in amount to the fullest extent permitted by Applicable Law. In addition, the Parties shall cooperate in accordance with Applicable Law to minimize indirect taxes (such as value added tax, sales tax, consumption tax, and other similar taxes) in connection with this Agreement.

(c) <u>Late Payments</u>. Avenue agrees that all payments or portions thereof required to be paid by Avenue to Licensor under this Agreement which are not made when due shall accrue simple interest, to the extent permitted by Applicable Law, from the date due until paid, at a rate equal to the prime rate, as quoted in *The Wall Street Journal* (New York Edition) on the date on which the payment was due, plus two percent (2%), in each case, calculated on the number of days such payment is delinquent, compounded monthly.

(d) <u>Foreign Currency Exchange</u>. For any currency conversion from the currency of one country in which Licensed Products are sold into United States dollars (or another currency if applicable) required in determining the amount of Net Sales or any Royalties due hereunder, such conversion shall be calculated at the conversion rate as reported in *The Wall Street Journal* (New York Edition) (or if that is no longer published, the interbank rate quoted by Citibank, N.A.) on the last Business Day of the applicable quarterly period in which the Net Sales are determined.

6.6 Records; Audit Rights.

(a) <u>Records</u>. Avenue shall keep complete, true, and accurate books and records in accordance with its Accounting Standards in relation to this Agreement in relation to Net Sales, royalties, Sublicense Revenue, and Milestone Payments for at least four (4) years following the Calendar Year to which they pertain or for such longer period of time as required under any Applicable Law. Avenue shall cause each Selling Party to keep complete, true, and accurate books and records in accordance with its Accounting Standards in relation to this Agreement in relation to Net Sales, royalties, Sublicense Revenue, and Milestone Payments for at least three (3) years following the Calendar Year to which they pertain or for such longer period of time as required under any Applicable Law.

(b) Audit Rights. Subject to the other terms of this Section 6.6(b), during the Term and for a period of four (4) years thereafter, at the request of Licensor, which shall not be made more frequently than one (1) time per Calendar Year other than for cause, upon at least thirty (30) days' prior written notice from Licensor, and at the expense of Licensor, Avenue shall permit an independent, nationally-recognized certified public accountant selected by Licensor and reasonably acceptable to Avenue (each, an "*Auditor*") to inspect, during regular business hours, the relevant records required to be maintained by Avenue under Section 6.6(a). Prior to its inspection, the Auditor shall enter into a confidentiality agreement with both Parties having obligations of confidentiality and non-use with respect to the Confidential Information no less restrictive than those set forth in Section 8 and limiting the disclosure and use of such information by the Auditor to authorized representatives of the Parties and the purposes germane to Section 6.6(a). Results of any such review shall be binding on both Parties absent manifest error. Licensor shall treat the results of any Auditor's review of Avenue's records as Confidential Information of Avenue subject to the terms of Section 8. In the event such audit leads to the discovery of a discrepancy to Licensor's detriment, Avenue shall, within thirty (30) days after receipt of such review. Any undisputed amount of the discovery. Licensor shall pay the full cost of the audit unless the underpayment of amounts due by Avenue is greater than five percent (5%) of the amount due for the entire period being examined, in which case Avenue shall pay the reasonable cost charged by the Auditor for such review. Any undisputed overpayments by Avenue revealed by an examination shall be paid by Licensor within thirty (30) calendar days of Licensor's receipt of the applicable report. This Section 6.6(b) shall survive any expiration or termination of this Agreement.

6.7 Equity.

(a) Avenue shall, within thirty (30) days after the Effective Date, issue to Licensor a number of shares of Avenue common stock (the "*Common Stock*") equal to fifteen percent (15%) of the Issued and Outstanding Equity Securities of Avenue, determined as of the Effective Date, subject to Licensor's execution of a subscription agreement in the form attached hereto as Exhibit D (the "*Subscription Agreement*").

(b) Within sixty (60) days following enrollment of the eighth (8th) patient in the first Phase 1b/2a Clinical Trial in the United States, Avenue shall issue to Licensor a number of shares of Common Stock equal to four and ninety-nine hundredths percent (4.99%) of the Issued and Outstanding Equity Securities of Avenue, as determined as of the Effective Date, subject to Licensor's execution of the Subscription Agreement.

(c) In connection with the issuance of the shares of Common Stock pursuant to this Agreement, Avenue and Licensor shall enter into a registration rights agreement (the "*Registration Rights Agreement*") in the form attached hereto as Exhibit E. For the avoidance of doubt, the Registration Rights Agreement shall provide for the registration of all shares of Common Stock issuable by Avenue to Licensor pursuant to this Agreement and any other shares of capital stock of Avenue distributed to Licensor as a result of their ownership thereof.

(d) In the event that the shares of Common Stock cease to be traded on the NASDAQ Stock Market or another national securities exchange at any time following the Effective Date, Licensor shall have the right, which shall not be exercised more than two (2) times, but not the obligation, to cause Avenue to purchase or compensate Licensor for all or a portion of the shares of Common Stock held by Licensor in accordance with this <u>Section 6.7(d)</u> (the "*Put Right*") within thirty (30) days of such cessation of trading that is continuing, by providing Avenue with written notice of Licensor's exercise of the Put Right, which notice must specify the number of shares of Common Stock Licensor desires to sell (the "*Put Shares*"). Provided that Licensor uses commercially reasonable efforts to sell all Put Shares at prevailing prices within the ninety (90)-day period following delivery of such notice, Avenue shall, upon the expiration of such ninety (90)-day period: (i) purchase any remaining Put Shares held by Licensor at a price per share equal to the greater of (A) the Price Per Share, or (B) \$2.10 per share, provided in either case ((A) or (B)) that such purchase of Put Shares shall be paid solely in cash and shall be subject to the execution of a customary purchase agreement with representations and warranties from Licensor limited to power, title and due authority; (ii) with respect to any Put Shares sold by Licensor during such ninety (90)-day period, at a price of less than \$2.10 per share, pay to Licensor acsh amount equal to difference between (A) the aggregate consideration Licensor would have received had all such Put Shares been sold at a price of \$2.10 per share, and (B) the aggregate consideration actually received by Licensor in connection with the sale of Put Shares; and (iii) reimburse Licensor, and shall not be obligated to repurchase any shares, under this <u>Section 6.7(d)</u> if such repurchase would (x) cause the Company to violate Section 160 of the Delaware General Corporation Law (the "*DGCL*") or (y)



(e) For so long as Licensor holds shares of Common Stock greater than or equal to three percent (3%) of the Issued and Outstanding Equity Securities of Avenue as of any given time, Avenue shall, subject to the Observer, as defined herein, executing a confidentiality agreement with Avenue: (i) permit one (1) individual nominated by Licensor (the "*Observer*") to attend all meetings of the Board of Directors of Avenue (excluding any committee or subcommittee meetings thereof); and (ii) concurrently with delivery to the Board of Directors of Avenue, give the Observer copies of all notices, minutes, consents, and other material that Avenue provides to its directors, except that the Observer may be excluded from access to any material or meeting or portion thereof if the Board of Directors of Avenue reasonably determines in good faith, upon advice of counsel, that such exclusion is reasonably necessary to preserve the attorney-client privilege, to protect highly confidential proprietary information, or for other similar reasons. Upon reasonable notice and at a scheduled meeting of the Board of Directors of Avenue or such other time, if any, as the Board of Directors of Avenue may determine in its sole discretion, such Observer may address the Board of Directors of Avenue with respect to Observer's concerns regarding significant business issues facing Avenue.

7. Intellectual Property

7.1 Ownership. Subject to Section 2.1, ownership of all Inventions arising from the Parties' activities under this Agreement, including any Patents covering such Inventions, will be determined by inventorship. As between Licensor and Avenue, each Party shall own any Inventions made solely by its own employees, agents, or independent contractors in the course of conducting any activities under this Agreement (all such Inventions, "*Sole Inventions*" and all Patents that claim such Sole Inventions, "*Sole Patents*"). All such Inventions conceived or reduced to practice jointly by the Parties will be jointly owned (all such Inventions, "*Joint Inventions*" and all Patents that claim such Joint Inventions, "*Joint Patents*"). The determination of whether information and Inventions are conceived, discovered, developed, or otherwise made by a Party for the purpose of allocating proprietary rights (including Patent, copyright, Know-How, etc.) therein, shall, for purposes of this Agreement, be made in accordance with Applicable Law in the United States as such law exists as of the Effective Date irrespective of where such conception, discovery, development or making occurs. Subject to the terms and conditions of this Agreement, Avenue hereby grants to Licensor, and Licensor hereby accepts, a non-exclusive, royalty-free, fully paid-up, transferrable (solely in connection with a permitted assignment or transfer of this Agreement pursuant to <u>Section 12.4</u>), and fully sublicensable license during the Avenue Sole Invention License Term to use and practice any Sole Inventions and Sole Patents products, provided that such products are not offered in the Field. With respect to any sublicense of the license granted to Licensor pursuant to this <u>Section 7.1</u>: (a) such sublicense must be consistent with the terms of this Agreement applicable to the exercise of rights under such sublicense; (b) the grant of any sublicense shall not relieve Licensor of its obligations under this Agreement; and (c) Licensor or its Affiliates shall

7.2 Disclosure of Inventions. Each Party shall promptly disclose to the other Party any Inventions that such Party believes are patentable Joint Inventions.

7.3 Prosecution and Maintenance.

(a) As between the Parties, Avenue shall use Commercially Reasonable Efforts to handle all Prosecution and Maintenance of the Licensed Patents, at its sole cost and expense and through counsel of its choice, provided that, with respect to all validity, enforceability and other material prosecution matters (including decisions related to nullity, reissue, opposition and re-examination proceedings), Avenue shall provide Licensor with a reasonable opportunity to review and comment on material communications from any patent authority regarding the Licensed Patents and drafts of any material filings or responses to be made to such patent authorities in advance of submitting such filings or responses. Avenue shall consider Licensor's comments regarding such communications and drafts in good faith. If, as between the Parties, Avenue decides not to Prosecute and Maintain a Licensed Patent in a country in the Territory, Avenue shall provide reasonable prior written notice to Licensor of such intention explicitly and clearly at least sixty (60) days prior to the date upon which such Patent will lapse or become abandoned and, Licensor shall thereupon have the right, in its sole discretion, to assume the Prosecution and Maintenance of such Licensed Patent at its sole cost and expense in such country.

(b) Each Party shall assist the other Party at the reasonable request of the other Party from time to time in connection with its Prosecution and Maintenance activities set forth in <u>Section 7.3(a)</u>. The Party that has the right to Prosecute and Maintain a Licensed Patent (the "*Prosecuting Party*") shall: (i) keep the other Party (the "*Non-Prosecuting Party*") informed of all steps to be taken in the preparation and prosecution of all applications filed by it pursuant to <u>Section 7.3(a)</u>; (ii) furnish the Non-Prosecuting Party with copies of such applications for Patents, amendments thereto and other related correspondence to and from patent offices, including correspondence relating to any office actions; and (iii) to the extent reasonably practicable, permit the Non-Prosecuting Party an opportunity to offer its comments on such applications, amendments and other correspondence before making a submission to a patent office, which comments the Prosecuting Party shall consider in good faith. The Non-Prosecuting Party shall offer its comments, if any, promptly.

(c) Except as otherwise provided in this Section 7.3(c), Avenue shall have the primary right and responsibility to prepare, file, prosecute and maintain Joint Patents on a worldwide basis, and such costs shall be shared equally between the Parties. The Parties shall confer and mutually agree to a filing strategy, including the jurisdictions in which to Prosecute and Maintain a patent application, and Avenue shall provide Licensor a reasonable opportunity to review and comment on material communications from any patent authority regarding the Joint Patents and drafts of any material filings or responses to be made to such patent authorities in advance of submitting such filings or responses. Avenue shall consider Licensor's comments regarding such communications and drafts in good faith. In the event that Avenue elects not to continue the Prosecution and Maintenance of a Joint Patent in any country, then Avenue shall provide Licensor with written notice of such determination at least sixty (60) calendar days prior to the date upon which such Joint Patent at its sole cost and expense in such country.

7.4 Enforcement.

(a) Each Party shall promptly notify the other Party in writing if it becomes aware of infringement or a Patent challenge by a Third Party of any Licensed Patent or Joint Patent in the Territory, including any declaratory judgment, opposition, post grant review, inter partes review, or similar action alleging the invalidity, unenforceability, unpatentability, or non-infringement with respect to such Licensed Patent, including under any regulatory filing based on Section 351(k) of the Public Health Service Act (42 U.S.C. § 262), or Section 10(4) of the Directive 2001/83/EC, or any other similar regulation promulgated by the FDA, EMA, or by other applicable similar Governmental Authority or other actual or potential infringement or Patent challenge by a generic, or potential generic competitor anywhere in the Territory (collectively, "*Competing Infringement*").

(b) Avenue, its Affiliate, or its Sublicensee shall have the first right, but not the obligation, to bring and control any legal action or take such other actions as it reasonably deems appropriate (including responding to Third-Party notice letters and controlling settlements subject to the terms in this <u>Section 7.4</u>), which may include the granting of licenses and authorizing the launch of generic products in connection with any Competing Infringement of any Licensed Patent, at its cost and expense with counsel of its choice. Prior to commencing any such action, Avenue, its Affiliate, or its Sublicensee shall consult with Licensor and shall give due consideration to Licensor's recommendations regarding the proposed action. Avenue shall cause Licensor to receive timely notice of any proposed settlement of any such action instituted by Avenue or the others and shall not, without the prior written consent of Licensor (which shall not be unreasonably withheld or delayed), enter into any settlement that would: (i) adversely affect the validity, enforceability or scope of any of the Licensed Patent; (ii) give rise to liability of Licensor or its Affiliates; (iii) admit non-infringement of any Licensed Patent or Joint Patent; or (iv) otherwise impair Licensor's rights in any Licensed Patent, Joint Patent, or under this Agreement. At the request and expense of Avenue, Licensor shall provide reasonable assistance in connection with Avenue's legal or other actions in connection with any such Competing Infringement, including by executing reasonably appropriate documents, cooperating in discovery, and joining as a party to the action if required.

(c) If: (i) within ninety (90) calendar days of receiving notice or becoming aware, as applicable, of such Competing Infringement; or (ii) ninety (90) calendar days before the expiration date for filing such actions, Avenue does not initiate proceedings or take other measures to address such Competing Infringement, then Licensor shall have the sole and exclusive right (but not the obligation) to assume or control the enforcement thereof at Licensor's own cost and expense with counsel of its choice. At the request and expense of Licensor, Avenue, its Affiliate, or its Sublicensee shall provide reasonable assistance in connection with Licensor's legal or other actions in connection with any such Competing Infringement, including by executing reasonably appropriate documents, cooperating in discovery, and joining as a party to the action if required.

7.5 Defense.

(a) Each Party shall promptly notify the other Party in writing after becoming aware of any claim alleging that the Development, Manufacture, or Commercialization of any Licensed Molecule or Licensed Product in the Territory infringes, misappropriates, or otherwise violates any Patents, Know-How, or other intellectual property rights of any Third Party (*"Third-Party Infringement"*). In any such instance, the Parties shall as soon as practicable thereafter discuss in good faith the most appropriate response to such notice of Third-Party Infringement.

(b) Without limiting either party's indemnification obligations under Section 10, Avenue shall have the first right to defend and take such other actions as it reasonably deems appropriate with respect to any such claim of Third-Party Infringement, at Avenue's sole discretion, cost and expense, provided that, if Avenue does not commence actions to defend such claim of Third-Party Infringement within thirty (30) days after it becomes aware of such claim or within thirty (30) days before the expiration date for responding to such claim, whichever is earlier, then Licensor shall have the sole and exclusive right to control the defense of such claim with counsel of its choice and at its sole discretion, cost, and expense, to the extent allowed by Applicable Laws. The defending Party shall keep the non-defending Party reasonably informed of the status of such claim of Third-Party Infringement and shall cause the non-defending Party to receive timely notice of any proposed settlement of any such action arising from such claim of Third-Party Infringement and shall not, without the prior written consent of the non-defending Party (which shall not be unreasonably withheld or delayed), enter into any settlement that would give rise to liability of the non-defending Party or its Affiliates or would otherwise impair the non-defending Party or its Affiliates' rights in any Licensed Products or Licensed Molecule, or under this Agreement. At the request and expense of the defending Party, the non-defending Party shall provide reasonable assistance in connection with the defending Party's legal or other actions in connection with the defense of such claim of Third-Party Infringement, including by executing reasonably appropriate documents, cooperating in discovery, and joining as a party to the action if required.

7.6 <u>Recovery</u>. Any recovery received as a result of any action under <u>Section 7.4</u> or <u>Section 7.5</u> shall be allocated in the following order: (a) to reimburse the enforcing/defending Party for the reasonable costs and expenses (including attorneys' and professional fees) that the enforcing/defending Party incurred in connection with such action, to the extent not previously reimbursed; (b) to reimburse the non-enforcing/defending Party, where it joins a legal action as provided under <u>Section 7.4</u> or <u>Section 7.5</u> (as applicable), for the reasonable costs and expenses (including attorneys' and professional fees) that the non-enforcing/defending Party incurred in connection with such action, to the extent not previously reimbursed; and (c) the remainder of the recovery shall be retained by the enforcing/defending Party and, if the enforcing/defending Party is Avenue, with respect to any portion of such recovery constituting compensatory damages for lost sales of Licensed Products, the amount determined to be lost sales of Licensed Product hereunder shall be treated as Net Sales for the purposes of <u>Section 6.3</u>.

7.7 Orange Book Listing. Subject to Section 6.3, Avenue, its Affiliates, or its Sublicensees shall be solely responsible for listing and maintaining all appropriate Licensed Patents and Joint Patents in the Orange Book in the United States or the Patent List in Canada, including payment of all expenses related to such listing and maintenance incurred after the Effective Date.

8. Confidentiality

8.1 Nondisclosure. Each Party agrees that a Party (the "Receiving Party") which receives the Confidential Information of the other Party (the "Disclosing Party") pursuant to this Agreement shall: (a) maintain in confidence such Confidential Information using not less than the efforts that such Receiving Party uses to maintain in confidence its own proprietary information, but in no event less than a reasonable degree of efforts: (b) not disclose such Confidential Information to any Third Party without first obtaining the prior written consent of the Disclosing Party, except for disclosures expressly permitted pursuant to this Section 8; (c) cause its Affiliates, advisors or other Persons that receive any Confidential Information from or at the direction of the Receiving Party to abide by the confidentiality and non-use provisions of this Agreement, including but not limited to the terms and conditions of this Section 8; and (d) not use such Confidential Information for any purpose except those permitted under this Agreement, including, in the case of Avenue, the exercise of the rights and licenses granted to Avenue hereunder. The obligations of confidentiality, nondisclosure, and non-use under this Section 8 shall remain in full force and effect from the Effective Date until five (5) years following the Term. The Receiving Party shall return all copies of, or destroy the Confidential Information of the Disclosing Party disclosed or transferred to it by the other Party pursuant to this Agreement, promptly, but in any event within thirty (30) days after the termination (but not the expiration) of this Agreement, provided that subject to the other provisions of this Section 8, a Party may retain: (x) Confidential Information of the other Party to exercise rights and licenses which expressly survive such termination or expiration pursuant to this Agreement; (y) one (1) copy of all other Confidential Information in archives solely for the purpose of establishing the contents thereof; and (z) the Disclosing Party's Confidential Information contained in the Receiving Party's electronic back-up files that are created in the normal course of business pursuant to the Receiving Party's standard protocol for preserving its electronic records; provided, however, that any such Confidential Information retained by the Receiving Party pursuant to clauses (x), (y), or (z) of this Section 8.1 shall continue to be subject to the terms and conditions of this Section 8, until such time that the Receiving Party no longer retains such Confidential Information pursuant to clauses (x), (y), or (z) of this Section 8.1.

8.2 Exceptions. Section 8.1 shall not apply with respect to any portion of the Confidential Information of the Disclosing Party to the extent that such Confidential Information:

(a) was known to the Receiving Party or any of its Affiliates, as evidenced by written records, prior to disclosure by the Disclosing Party;

(b) is subsequently disclosed to the Receiving Party or any of its Affiliates by a Third Party lawfully in possession thereof and without any obligation to keep it confidential or any restriction on its use, provided that such Third Party is not and was not prohibited from disclosing such Confidential Information to the Receiving Party by a legal, fiduciary or contractual obligation owing to the Disclosing Party;

(c) is published by a Third Party or otherwise becomes publicly available or enters the public domain, either before or after it is disclosed to the Receiving Party, without any breach by the Receiving Party of its obligations hereunder; or

(d) is independently developed by or for the Receiving Party or any of its Affiliates, as evidenced by written records, without reference to, use of, or reliance upon the Disclosing Party's Confidential Information.

Any combination of features or disclosures shall not be deemed to fall within the foregoing exclusions merely because individual features are published or available to the general public or in the rightful possession of the Receiving Party unless the combination itself and principle of operation are published or available to the general public or in the rightful possession of the Receiving Party.

8.3 Authorized Disclosure and Use.

(a) <u>Disclosure</u>. Notwithstanding <u>Section 8.1</u>, the Receiving Party may disclose Confidential Information belonging to the Disclosing Party in the following instances:

(i) subject to <u>Section 8.5</u>, to comply with Applicable Law (including the rules and regulations of the U.S. Securities and Exchange Commission ("**SEC**") or any national securities exchange in any jurisdiction) (collectively, the "**Securities Regulators**") or with judicial process (including prosecution or defense of litigation), if, in the reasonable opinion of the Receiving Party's counsel, such disclosure is necessary for such compliance or for such judicial process (including prosecution or defense of litigation);

(ii) disclosure to governmental or other regulatory agencies in order to obtain Patents, to obtain or maintain approval to conduct Clinical Trials, or to market the Licensed Molecule or Licensed Products under this Agreement, in each case, in accordance with this Agreement, provided that reasonable steps are taken to ensure confidential treatment of such Confidential Information to the extent available;

(iii) disclosure to (A) any of its officers, directors, employees, consultants, agents, or Affiliates, (B) in the case of Avenue, any actual or potential collaborators or Sublicensees, (B) in the case of either Party, to such Party's permitted subcontractors for the purpose of such subcontractors performing obligations of such Party under this Agreement, and (D) in the case of either Party, to such Party's actual or potential acquirers, provided that, prior to any such disclosure, each such disclosee is bound by reasonable and customary written obligations of confidentiality, non-disclosure, and non-use, including, in the case of disclosure to Third Parties, obligations that are consistent with the obligations set forth in this Section 8, provided that, in each of the above situations described in this Section 8.3(a)(iii) the Receiving Party shall be liable to the Disclosing Party for any failure by any Person who receives Confidential Information from such Receiving Party pursuant to this Section 8.3(a)(iii) to treat such Confidential Information as required under this Section 8;

(iv) disclosure to any actual or potential acquirer, or prospective investment bankers, investors, lenders, or other financial partners, provided that (A) prior to any such disclosure, each such disclose is bound by written obligations of confidentiality, non-disclosure, and non-use consistent with the obligations set forth in this <u>Section 8</u>, (B) such disclosure shall solely be in the form of the redacted version of this Agreement, which version has been agreed upon by the Parties in good faith, including any such redacted version that has been agreed upon for actual or potential filing to the SEC, and (C) it being understood and agreed that only after negotiations between the Receiving Party and any such Third Party have progressed so that the Receiving Party reasonably and in good faith believes that consummation of the proposed transaction with such Third Party is imminent (*e.g.*, commencement of Third Party's due diligence in an M&A transaction), the Receiving Party may provide an unredacted version of this Agreement to such Third Party; and

(v) disclosure to its advisors (including attorneys and accountants) in connection with activities under this Agreement, provided that prior to any such disclosure, each such disclose is bound by written obligations of confidentiality, non-disclosure, and non-use that are at least as stringent with respect to the disclosure and non-use of Confidential Information as the obligations set forth in this Section 8 (provided that in the case of legal advisors, no written agreement shall be required), to maintain the confidentiality thereof and not to use such Confidential Information except as expressly permitted by this Agreement, provided that in each of the above situations in this Section 8.3(a)(v), the Receiving Party be liable to the Disclosing Party for any failure by any Person who receives Confidential Information from such Receiving Party pursuant to this Section 8.3(a)(v) to treat such Confidential Information as required under this Section 8.

(b) <u>Use</u>. Each Party shall have the right to use the Confidential Information of the other Party to fulfill its obligations and exercise its rights under this Agreement, including with respect to Licensor the use of Confidential Information that is deemed to be Avenue's to issue the press releases described in <u>Section 8.7</u>.

(c) <u>Terms of Disclosure</u>. If and whenever any Confidential Information is disclosed in accordance with this <u>Section 8.3</u>, such disclosure shall not cause any such information to cease to be Confidential Information, except to the extent that such disclosure results in a public disclosure of such information other than by breach of this Agreement.

8.4 <u>Terms of this Agreement</u>. The Parties agree that this Agreement, the terms hereof, the transactions contemplated hereby, and any other agreement, document, instrument or certificate contemplated by this Agreement, shall be deemed to be Confidential Information of both Licensor and Avenue, and each Party agrees not to disclose this Agreement or any terms hereof without obtaining the prior written consent of the other Party, provided that each Party may disclose this Agreement or any terms hereof in accordance with the provisions of <u>Section 8.3</u>, Section 8.5, or <u>Section 8.7</u>, as applicable.

8.5 Securities Filing; Disclosure Under Applicable Law. Each Party acknowledges and agrees that the other Party may submit this Agreement to, or file this Agreement with, any Securities Regulators or other Persons as may be required by Applicable Law, and if a Party submits this Agreement to, or files this Agreement with, any Securities Regulator or other Person as may be required by Applicable Law, such Party agrees to consult with the other Party with respect to the preparation and submission of a confidential treatment request for this Agreement. Notwithstanding the foregoing, if a Party is required by any Securities Regulator or other Person as may be required by Applicable Law, such Party agrees to consult with the other Party with respect to the preparation and submission of a confidential treatment request for this Agreement. Notwithstanding the foregoing, if a Party is required by any Securities Regulator or other Person as may be required by Applicable Law to make a disclosure of the terms of this Agreement in a filing or other submission as required by such Securities Regulator or such other Person, and such Party has: (a) provided copies of the disclosure to the other Party reasonably in advance under the circumstances of such filing or other disclosure; (b) promptly notified the other Party in writing of such requirement and any respective timing constraints; and (c) given the other Party reasonable time under the circumstances from the date of provision of a copy of such disclosure to comment upon and request confidential treatment for such disclosure; then such Party shall have the right to make such disclosure at the time and in the manner reasonably determined by its counsel to be required by the Securities Regulator or the other Person. Notwithstanding the foregoing, if a Party seeks to make a disclosure as required by a Securities Regulator or other Person as may be required by Applicable Law as set forth in this Section 8.5, the Party seeking to make such disclosure or its counsel, as the cas

8.6 Use of Name. Except as expressly provided herein, neither Party shall mention or otherwise use the name, logo, or trademark of the other Party or any of its Affiliates (or any abbreviation or adaptation thereof) in any publication, press release, marketing and promotional material, or other form of publicity without the prior written approval of such other Party in each instance. The restrictions imposed by this Section 8.6 shall not prohibit either Party from making any disclosure identifying the other Party that is required by Applicable Law or pursuant to Section 8.5.

8.7 <u>Publicity</u>. The Parties shall make a joint public announcement of the execution of this Agreement which shall be issued at a time to be mutually agreed by the Parties. The Parties intend the final content must be mutually agreed upon by both Parties prior to being issued by either party. Each Party agrees not to issue any other press release or other public statement (except to the extent required by Applicable Law or pursuant to <u>Section 8.5</u>) disclosing other information relating to this Agreement or the transactions contemplated hereby that contains information not previously publicly disclosed in accordance with this <u>Section 8.7</u> without the prior written consent of the other Party, not to be unreasonably withheld, conditioned or delayed. Each Party shall cause the other Party to be notified within twenty-four (24) hours prior to any major public release relating to this Agreement and required by Applicable Law or applicable securities exchange rules.

9. Representations & Warranties; Covenants

9.1 Representations and Warranties of Each Party. Each Party hereby represents and warrants to the other Party, as of the Effective Date, that:

(a) such Party is duly organized, validly existing, and in good standing under the Applicable Law of the jurisdiction of its formation and has full requisite power and authority, corporate or otherwise, to enter into this Agreement and to carry out the provisions hereof;

(b) such Party has taken all necessary corporate action on its part to authorize the execution and delivery of this Agreement and the performance of its obligations hereunder;

(c) this Agreement has been duly executed and delivered on behalf of such Party and constitutes a legal, valid, and binding obligation, enforceable against it in accordance with its terms, except to the extent that enforcement of the rights and remedies created hereby is subject to (i) bankruptcy, insolvency, reorganization, moratorium, and other similar laws of general application affecting the rights and remedies of creditors, or (ii) laws governing specific performance, injunctive relief, and other equitable remedies;

(d) the execution, delivery, and performance of this Agreement by such Party does not and will not breach, violate or conflict with such Party's charter documents, bylaws or other organizational documents, any agreement or any provision thereof, or any instrument or understanding, oral or written, to which such Party (or any of its Affiliates) is a party or by which such Party (or any of its Affiliates) is bound, nor violate any Applicable Law of any Governmental Authority having jurisdiction over such Party (or any of its Affiliates);

(e) no government authorization, consent, approval, license, exemption of or filing or registration with any court or governmental department, commission, board, bureau, agency, or instrumentality, domestic or foreign, under any Applicable Law currently in effect, is or shall be necessary for, or in connection with, the transaction contemplated by this Agreement, or for the performance by it of its obligations under this Agreement, except: as may be required to conduct Clinical Trials or to seek or obtain Regulatory Approvals or applicable Regulatory Materials;

(f) it has obtained all necessary authorizations, consents, and approvals of any Third Party that is required to be obtained by it for, or in connection with, the transactions contemplated by this Agreement, or for the performance by it of its obligations under this Agreement, except as may be required to seek or obtain Regulatory Approvals or applicable Regulatory Materials; and

(g) it has not been debarred or is subject to debarment and it will not use in any capacity, in connection with the services to be performed under this Agreement, any Person who has been debarred pursuant to Section 306 of the FD&C Act or who is the subject of a conviction described in such section. It will inform the other Party in writing promptly if it or any such Person who is performing services hereunder is debarred or is the subject of a conviction described in Section 306 or if any action, suit, claim, investigation or legal or administrative proceeding is pending, relating to the debarment or conviction of it or any such Person performing services hereunder.

- 9.2 Representations and Warranties of Licensor. Licensor hereby represents and warrants to Avenue, as of the Effective Date, that:
 - (a) all the Licensed Patents in existence as of the Effective Date in the Territory are listed in Exhibit B;
 - (b) Licensor Controls the Patents listed in Exhibit B;

(c) Licensor has the right to grant the license and rights herein to Avenue, and has not entered into any agreement that conflicts with the license and rights granted herein to Avenue;

(d) there are no claims, actions, demands, suits, proceedings, arbitrations, grievances, citations, summonses, subpoenas, inquiries, investigations, judgments or settlements against or owed by Licensor relating to the Licensed Molecule, or to the Licensed Patents or Licensed Know-How in the Territory for which Licensor has received written notice, including notice of any claims or demands alleging that the Licensed Patents are invalid or unenforceable;

(e) Licensor owns the entire right, title, and interest in the Licensed IP free and clear of all Encumbrances;

(f) to the actual knowledge of Licensor, no Third Party has challenged the extent, validity or enforceability of the Licensed Patents (including, by way of example, through the institution or threat of institution of interference, opposition, post-grant review, reexamination, nullity or similar invalidity proceedings before a United States or foreign court, the United States Patent and Trademark Office or any analogous foreign entity);

(g) to the actual knowledge of Licensor, the conception, development and reduction to practice of Licensed IP existing as of the Effective Date have not constituted or involved the misappropriation or infringement of Patents, trade secrets, or other intellectual property rights of any Third Party in any manner that would conflict with the license granted to Avenue hereunder;

(h) to the actual knowledge of Licensor, each of the patents and patent applications included within the Licensed Patents properly identifies each and every inventor of the claims thereof as determined in accordance with the laws of the jurisdiction in which such patent is issued or such patent application is pending;

- (i) none of Licensor's Affiliates Controls any Patent Covering the Licensed Molecule; and
- 9.3 <u>Representations and Warranties of Avenue</u>. Avenue hereby represents and warrants to Licensor, as of the Effective Date, that:

(a) Avenue has all rights necessary to grant the rights granted to Licensor pursuant to Section 2.4 and Section 7.1;

(b) Avenue (i) does not own or license any Patents or Patent applications that cover a Competing Product, and (ii) is not currently engaging in any Development or Commercialization of any Competing Product; and

(c) there are no Patents or Patent applications owned by Avenue or its Affiliates that claim the subject matters of the Licensed Patents as listed in Exhibit B.

9.4 Additional Covenants.

(a) To the extent permissible under Applicable Law, each Party shall ensure that its Affiliates and its and their employees performing activities under this Agreement shall be under an obligation to assign all right, title and interest in and to their Inventions, whether or not patentable, and intellectual property rights therein, to such Party or its Affiliate(s) as the sole owner thereof. Neither Party shall have any obligation to contribute to any remuneration of any inventor employed or previously employed by the other Party or any of its Affiliates in respect of any such Inventions, Information and discoveries and intellectual property rights therein that are so assigned to such other Party or its Affiliate(s). Each Party will pay all such remuneration, if any, due to inventors performing activities under this Agreement on behalf of such Party or its Affiliates with respect to such Inventions and other Know-How and intellectual property rights therein.

(b) In performing its obligations under this Agreement, each Party shall, and shall cause its Affiliates and Sublicensees to comply with: (i) all Applicable Laws, including any applicable anti-corruption or anti-bribery laws or regulation, of any Governmental Authority with jurisdiction over the activities performed by such Party or its Affiliates or sublicensees in furtherance of such obligations; and (ii) the Pharmaceutical Research and Manufacturers of America (PhRMA) guidelines in the U.S., European Federation of Pharmaceutical Industries and Associations' Code of Practice, and International Federation of Pharmaceutical Manufacturers & Associations' Code of Practice.

(c) Each Party shall not, and shall ensure that its Affiliates and Sublicensees shall not, without the prior written consent of Licensor, solicit, induce, encourage, or participate in soliciting, inducing, or encouraging any employee of the other Party or any of its Affiliates who has been as of, or becomes after the Effective Date, involved in the discussion leading to this Agreement, or the Development, Manufacture, or Commercialization of the Licensed Molecule or Licensed Products to terminate such employee's relationship with such other Party or its Affiliates.

(d) Each Party shall notify the other Party promptly after becoming aware of any Person's actual or threatened infringement or misappropriation of any Joint Patents.

(e) Each Party shall promptly notify the other Party upon becoming aware of any suit, litigation, or written claim in the Territory brought or threatened by any Person alleging that the Development, Manufacture, or Commercialization of the Licensed Products infringes a Patent owned by such Person and shall cause its Affiliates and Sublicensees, as applicable, to provide notice to such Party to enable such Party to provide notice to the other Party in accordance with this <u>Section 9.4(e)</u>.

9.5 Disclaimer. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED HEREIN, NEITHER PARTY MAKES ANY REPRESENTATIONS OR EXTENDS ANY WARRANTIES OF ANY KIND, EXPRESSOR IMPLIED, AND EACH PARTY HEREBY EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES NOT EXPRESSLY PROVIDED IN THIS AGREEMENT, INCLUDING WITH RESPECT TO ANY PATENTS OR KNOW-HOW, INCLUDING ANY AND ALL WARRANTIES OF VALIDITY, ENFORCEABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR USE OR PURPOSE, PERFORMANCE, OR NON-INFRINGEMENT OF ANY THIRD-PARTY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. NEITHER PARTY MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, THAT IT WILL BE ABLE TO SUCCESSFULLY DEVELOP, MANUFACTURE, OR COMMERCIALIZE ANY LICENSED MOLECULE OR LICENSED PRODUCT OR, IF COMMERCIALIZED, THAT ANY PARTICULAR SALES LEVEL OF SUCH LICENSED PRODUCT WILL BE ACHIEVED.

10. Indemnification; Insurance; Limitation of Liability

10.1 <u>Indemnification by Avenue</u>. Avenue shall indemnify, defend, and hold harmless Licensor, its Affiliates, and its and their respective directors, officers, employees, agents, successors, and assigns (collectively, the "*Licensor Indemnitees*") from and against any and all Damages to the extent arising out of or relating to, directly or indirectly, any Third-Party Claim based upon:

(a) the Development, Manufacture, or Commercialization of any Licensed Molecule or Licensed Product in the Field in the Territory by Avenue, its Affiliates, or its Sublicensees;

(b) the gross negligence or willful misconduct of Avenue or its Affiliates or its or their respective directors, officers, employees, consultants, subcontractors, or agents, in connection with Avenue's performance of its obligations under this Agreement, the Subscription Agreement, or the Registration Rights Agreement; or

(c) any breach by Avenue of any of its representations, warranties, covenants, agreements or obligations under this Agreement, the Subscription Agreement, or the Registration Rights Agreement.

Notwithstanding the foregoing, Avenue's obligation to indemnify pursuant to this <u>Section 10.1</u> shall not apply to any Third-Party Claims for which Licensor is required to indemnify Avenue pursuant to <u>Section 10.2</u>.

10.2 <u>Indemnification by Licensor</u>. Licensor shall indemnify and hold harmless Avenue, its Affiliates, and its and their respective directors, officers, employees, agents, successors, and assigns (collectively, the "*Avenue Indemnitees*"), from and against any and all Damages to the extent arising out of or relating to, directly or indirectly, any Third-Party Claim based upon:

(a) the Development, Manufacture, or Commercialization of any Licensed Molecule or Licensed Product prior to the Effective Date;

(b) the Manufacture of any Licensed Molecule or Licensed Product for Licensor, its Affiliates or a Third Party (other than a Sublicensee);

(c) the Manufacture of any Licensed Molecule or Licensed Product by Licensor or its Affiliates for Avenue, its Affiliates or Sublicensees, or the supply of such Licensed Molecules or Licensed Products to Avenue or its Affiliates or Sublicensees, except to the extent such Third-Party Claim arises from Licensor's compliance with Avenue's (or its Affiliates' or any of its Sublicensees') unique technical specifications or unique technical requirements that are requested in writing by Avenue;

(d) the Development, Manufacture, or Commercialization of any Licensed Molecule or Licensed Product outside of the Field or outside of the Territory by or on behalf of Licensor or its Affiliates or licensees on or after the Effective Date;

(e) the gross negligence or willful misconduct of Licensor or its Affiliates or its or their respective directors, officers, employees, consultants, subcontractors or agents, in connection with Licensor's performance of its obligations under this Agreement, the Subscription Agreement, or the Registration Rights Agreement; or

(f) any breach by Licensor of any of its representations, warranties, covenants, agreements or obligations under this Agreement, the Subscription Agreement, or the Registration Rights Agreement, or of applicable law, including U.S. securities laws governing insider trading.

Notwithstanding the foregoing, Licensor's obligation to indemnify pursuant to this <u>Section 10.2</u> shall not apply to any Third-Party Claims for which Avenue is required to indemnify Licensor pursuant to <u>Section 10.1</u>.

10.3 Indemnification Procedure.

(a) If a Party is seeking indemnification pursuant to <u>Section 10.1</u> or <u>Section 10.2</u>, as applicable (such Party, the "*Indemnitee*"), it shall inform the other Party (the "*Indemnitor*") of the claim giving rise to the obligation to indemnify pursuant to <u>Section 10.1</u> or <u>Section 10.2</u>, as applicable, as soon as reasonably practicable after receiving notice of or otherwise becoming aware of the claim (an "*Indemnification Claim Notice*"), provided that any delay or failure to provide such notice shall not constitute a waiver or release of, or otherwise limit, the Indemnitee's rights to indemnification under <u>Section 10.1</u> or <u>Section 10.2</u>, as applicable, except to the extent that such delay or failure prejudices the Indemnitor's ability to defend against the relevant claims or results in increased Damages to the Indemnitor.

(b) The Indemnitor shall have the right, upon written notice given to the Indemnitee within thirty (30) days after receipt of the Indemnification Claim Notice (and, where the Indemnitor is Licensor, subject to receipt of Avenue's prior written consent), to assume the defense of any such claim for which the Indemnitee is seeking indemnification pursuant to <u>Section 10.1</u> or <u>Section 10.2</u>, as applicable. The Indemnitee shall cooperate with the Indemnitor and the Indemnitor's insurer as the Indemnitor may reasonably request, and at the Indemnitor's cost and expense. The Indemnitee shall have the right to participate, at its own expense, and with counsel of its choice, in the defense of any claim or suit that has been assumed by the Indemnitor.

(c) The Indemnitor shall not settle any claim to which it is subject pursuant to <u>Section 10.1</u> or <u>Section 10.2</u>, as applicable, without first obtaining the prior written consent of the Indemnitee, not to be unreasonably withheld, conditioned, or delayed, provided that the Indemnitor shall not be required to obtain such consent if the settlement: (i) involves only the payment of money and shall not result in the Indemnitee (or other Licensor Indemnitees, as applicable) becoming subject to injunctive, equitable, or other similar type of relief, including any restrictions on the operations of the business of the Indemnitee; (ii) does not require an admission by the Indemnitee (or other Licensor Indemnitees or Avenue Indemnitees, as applicable); (iii) does not adversely affect the rights or licenses granted to the Indemnitee (or its Affiliate) under this Agreement; and (iv) includes a general release of all Third-Party Claims against the Indemnitee by the applicable Third Party, if any, for which the Indemnitor is obligated to indemnity the Indemnitee pursuant to this <u>Section 10</u>. The Indemnitee shall not settle or compromise any such claim without first obtaining the prior written consent of the Indemnitor.

(d) If the Parties cannot agree as to the application of Section 10.1 or Section 10.2, as applicable, with respect to any claim, pending the resolution of the dispute pursuant to Section 12.7 (Governing Law; Dispute Resolution; Jurisdiction), the Parties may conduct separate defenses of such claims, with each Party retaining the right to claim indemnification from the other Party in accordance with Section 10.1 or Section 10.2, as applicable, upon resolution of the underlying claim. In each case, the Indemnitee shall reasonably cooperate with the Indemnitor and shall make available to the Indemnitor all pertinent information under the control of the Indemnitee, which information shall be subject to Section 8.

10.4 Insurance. During the Term and for a period of three (3) years thereafter, each Party shall maintain, at its cost, a program of insurance against liability and other risks associated with its activities and obligations under this Agreement (including with respect to its Clinical Trials), and its indemnification obligations hereunder, in such amounts, subject to such deductibles and on such terms as are customary for such Party for the activities to be conducted by it under this Agreement. At a minimum, Avenue's insurance shall include: (a) during the Term, comprehensive general liability, including broad form and contractual liability, in a minimum amount of \$3,000,000.00 combined single limit per occurrence and in the aggregate, written on an occurrence-basis, with no deductible, containing a separation of insureds provision, with additional coverage for broad form and contractual liability, completed operations; and (b) prior to the commencement of Clinical Trials involving Licensed Products, clinical trials coverage in a minimum amount of \$10,000,000.00 combined single limit per occurrence and in the aggregate, and (c) prior to the First Commercial Sale of the first Licensed Product, product liability coverage, in a minimum amount of \$15,000,000 combined single limit per occurrence and in the aggregate. Such insurance shall not be construed to create a limit on either Party's liability with respect to its indemnification obligations under this <u>Section 10</u> or otherwise.

10.5 Limitation of Liability. NEITHER LICENSOR NOR AVENUE, NOR ANY OF THEIR RESPECTIVE AFFILIATES, WILL BE LIABLE TO THE OTHER PARTY OR ITS AFFILIATES UNDER OR IN CONNECTION WITH THIS AGREEMENT FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE, OR EXEMPLARY DAMAGES (INCLUDING LOST PROFITS OR LOST REVENUES), REGARDLESS OF WHETHER LIABILITY IS ASSERTED IN CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT PRODUCT LIABILITY), INDEMNITY, CONTRIBUTION, OR OTHERWISE, AND REGARDLESS OF WHETHER SUCH PARTY OR ITS REPRESENTATIVES HAS BEEN ADVISED OF OR OTHERWISE ANTICIPATED THE POSSIBILITY OF ANY SUCH LOSS OR DAMAGE. NOTWITHSTANDING THE FOREGOING, THIS <u>SECTION 10.5</u> SHALL NOT APPLY TO: (a) EITHER PARTY'S INDEMNIFICATION OBLIGATIONS UNDER <u>SECTION 10</u>; (b) DAMAGES ARISING FROM AVENUE'S USE OR EXPLOITATION OF THE LICENSED IP IN ANY MANNER THAT MATERIALLY VIOLATES OR EXCEEDS THE LICENSE GRANTED IN <u>SECTION 2.1</u>, EXCLUDING ANY SUCH VIOLATION OR EXCESS ARISING OUT OF AVENUE'S NEGLIGENCE; OR (c) DAMAGES ARISING FROM EITHER PARTY'S GROSS NEGLIGENCE, INTENTIONAL MISCONDUCT, FRAUD, OR BREACH OF <u>SECTION 8</u>. NEITHER PARTY'S LIABILITY FOR INDEMNIFICATION OBLIGATIONS PURSUANT TO <u>SECTION 10</u> SHALL EXCEED THREE HUNDRED MILLION DOLLARS (\$300,000,000).

11. Term & Termination

11.1 <u>Term</u>. This Agreement shall become effective on the Effective Date and, unless earlier terminated in accordance with this <u>Section 11</u>, shall expire on a country-by-country and Licensed Product-by-Licensed Product basis upon the expiration of the Royalty Term under this Agreement with respect to such Licensed Product in such country (the "*Term*").

11.2 <u>Effect of Expiration</u>. Upon the expiration of the Term in a given country and for a given Licensed Product pursuant to <u>Section 11.1</u>, the licenses set forth in <u>Section 2.1</u> with respect to such Licensed Product in such country shall become fully paid-up, perpetual, irrevocable and royalty-free.

11.3 Termination for Material Breach.

(a) This Agreement may be terminated in its entirety or on a country-by-country (each, a "Terminated Country") or Licensed Product-by-Licensed Product (each, a "Terminated Product") basis by a Party for the material breach by the other Party of this Agreement, provided that the breaching Party has not cured such breach within sixty (60) calendar days after the date of written notice to the breaching Party of such breach (the "Cure Period"), which notice shall describe such breach in reasonable detail and shall state the nonbreaching Party's intention to terminate this Agreement (in its entirety or on a Terminated Product by Terminated Product or Terminated Country-by-Terminated Country basis); provided that, if the breaching Party is exercising Commercially Reasonable Efforts to cure such breach, the Cure Period shall be automatically extended for so long as such breaching Party is exercising commercially reasonable efforts to cure such breach; provided, further, that in no event shall the Cure Period exceed ninety (90) calendar days in the aggregate. In the event that a material breach relates solely to a given Terminated Product or to a given Terminated Country, then the non-breaching Party may only exercise its termination right under this Section 11.3 with respect to such Terminated Product or such Terminated Country. Any such termination of this Agreement (in its entirety or on a Terminated Product-by-Terminated Product or Terminated Country-by-Terminated Country basis) under this Section 11.3 shall become effective at the end of the Cure Period, unless the breaching Party has cured such breach prior to the expiration of such Cure Period, or, if such breach is not susceptible to cure within the Cure Period. Avenue's failure to use Commercial Reasonable Efforts to develop Licensed Product in accordance with Section 4.1 shall constitute a material breach for the purposes of this Section 11.3. In the event of Avenue's material breach of Sections 3.1(j), 4.2, 6.2, 6.3, 6.4, 6.7, Licensor may, subject to Avenue's right to cure, exercise its termination right to terminate the Agreement in its entirety. Notwithstanding the foregoing: (i) in the event that Avenue breaches Avenue's payment obligations set forth in Sections 3.1(j), 6.1,6.2(d), 6.3(d), 6.7(a), 6.7(d), the Cure Period for such breach shall be thirty (30) days; and (ii) in the event that (A) Avenue breaches Section 4.2 by failing to achieve a Diligence Milestone, and (B) the timeline for Avenue's achievement of the Diligence Milestones has, prior to such breach, been extended pursuant to Section 4.2, then there shall be no Cure Period for such breach.

(b) If the Parties reasonably and in good faith disagree as to whether there has been a material breach, including whether such breach was material, the Party that disputes whether there has been a material breach may contest the allegation in accordance with <u>Section 12.7(b)</u>. Notwithstanding anything to the contrary contained in <u>Section 12.7(b)</u>, the Cure Period for any Dispute shall run from the date that written notice was first provided to the breaching Party by the non-breaching Party through the resolution of such Dispute pursuant to <u>Section 12.7(b)</u>, and it is understood and acknowledged that, during the pendency of a Dispute pursuant this <u>Section 11.3(b)</u>, all of the terms and conditions of this Agreement shall remain in effect, and the Parties shall continue to perform all of their respective obligations under this Agreement.

11.4 <u>Termination for Convenience</u>. Avenue may terminate this Agreement at will, in its sole discretion, in its entirety or on a Licensed Product-by-Licensed Product or country-by-country basis, at any time (but in no event earlier than one full year following the Effective Date), upon ninety (90) calendar days' prior written notice to Licensor. For clarity, each such terminated Licensed Product shall automatically become a Terminated Product and each such terminated country shall automatically become a Terminated Country at the expiration of such ninety (90) calendar days.

11.5 Termination for Bankruptcy.

(a) If either Party makes a general assignment for the benefit of, or an arrangement or composition generally with, its creditors, appoints or suffers appointment of an examiner or of a receiver, custodian, liquidator, trustee or similar person over all or substantially all of its property, passes a resolution for its winding up, liquidation, dissolution, or reorganization or similar process, or files a petition or commences a proceeding under any bankruptcy or insolvency act or law or has any such petition filed, or proceeding commenced, against it and such party or any other person seeks to reject or disaffirm this Agreement, (each, a "*Rejection Event*"), the other Party may terminate this Agreement in its entirety, effective immediately upon written notice to such Party.

(b) For purposes of Section 365(n) of the U.S. Bankruptcy Code (the "*Code*") and any similar laws in any country other than the U.S., all rights and licenses granted under or pursuant to this Agreement are rights to "intellectual property" (as defined in Section 101(35A) of the Code). The Parties agree that the licensee of such rights under this Agreement will retain and may fully exercise all of its protections, rights, and elections under the Code and any similar laws in any country other than the U.S. Each Party hereby acknowledges that: (i) copies of research data; (ii) laboratory samples; (iii) product samples; (iv) formulas; (v) laboratory notes and notebooks; (vi) data and results related to Clinical Trials; (vii) regulatory filings and Regulatory Approvals; (vii) rights of reference in respect of regulatory filings and Regulatory Approvals; (ix) pre-clinical research data and results; and (x) marketing, advertising, and promotional materials, in each case ((i) – (x)), that relate to such intellectual property pursuant to Section 365(n) of the Code, and that the licensee will be entitled to a complete duplicate of (or complete access to, as appropriate) any such intellectual property and all embodiments of such intellectual property, and the same, if not already in its possession, will be promptly delivered to it upon its written request therefor and election under Section 365(n)(1)(B) of the Code to retain the licenses granted by Licensor to Avenue hereunder in the event of Licensor's rejection of this Agreement, unless Licensor elects to continue to perform all of its obligations under this Agreement. The provisions of this <u>Section 11.5(b)</u> are without prejudice to any rights the non-subject Party may have arising under the Code, laws of other jurisdictions governing insolvency and bankruptcy, or other Applicable Law.

(c) The Parties agree that they intend the following rights to extend to the maximum extent permitted by Applicable Law, including for purposes of the Code and any similar laws in any country other than the U.S.: (i) the right of access to any intellectual property (including all embodiments thereof) of Licensor, or any Third Party with whom Licensor contracts in accordance with this Agreement to perform an obligation of Licensor under this Agreement which is necessary or useful for the Development, Manufacture, or Commercialization of any Licensed Molecule or Licensed Product; (ii) the right to contract directly with any Third Party described in clause (i) to complete such contracted work; and (iii) the right to cure any Default under any such agreement with a Third Party and set off the costs thereof against amounts payable to such Licensor under this Agreement.

11.6 Termination for Patent Challenge.

(a) Licensor may terminate the entire Agreement at any time upon written notice to Avenue, if Avenue, or any of Avenue's Affiliates, directly, or indirectly through assistance of a Third Party, commences any interference or opposition proceeding, challenges the validity or enforceability of, or opposes any extension of or the grant of a supplementary protection certificate with respect to (a "*Patent Proceeding*") any Licensed Patent owned or controlled by Licensor that claims or discloses the composition of matter or the method of making or using the Licensed Product anywhere in the Territory except for a country in the Territory in which this Agreement has been terminated prior to the commencement of any such Patent Proceeding.

(b) In the event that a Sublicensee, directly or indirectly through the assistance of a Third Party, commences a Patent Proceeding, then upon becoming aware of such Patent Proceeding, Avenue will promptly terminate the applicable sublicense.

11.7 <u>Termination for Cessation Business</u>. Licensor may terminate this Agreement in its entirety upon the written notice to Avenue if Avenue, its Affiliates, or its Sublicensees at any time fail to conduct any material Development or Commercialization activities with respect to the Licensed Product for a continuous period of longer than twelve (12) months, and such suspension of activity is not: (a) contemplated in a Development Plans or Territorial Commercialization Plan or otherwise by written agreement of the Parties; (b) a result of Avenue's reasonable response to written guidance from or action by a Regulatory Authority in the Territory (such as a clinical hold, or a recall or withdrawal); (c) due to Licensor's failure to supply the Licensed Product in accordance with the terms of a Clinical Supply Agreement or Commercial Supply Agreement; or (d) due to a Force Majeure Event.

11.8 General Effects of Termination. The provisions of this Section 11.8 shall apply upon any expiration or termination of this Agreement.

(a) <u>Payment Obligation</u>. All applicable payment obligations hereunder shall terminate, other than those that are accrued and unpaid as of the effective date of the termination of this Agreement.

(b) <u>Return of Confidential Information</u>. Promptly, but in no event later than thirty (30) days after the effective date of the termination of this Agreement, each Party shall either destroy or return or cause to be returned to the other Party all Confidential Information in tangible form received from such other Party and all copies thereof and all materials substances or compositions delivered or provided by the other Party as instructed by the other Party, provided that: (i) Avenue may retain any such Confidential Information or materials as reasonably necessary for Avenue's continued practice under any license under this Agreement that remains effective after such termination; and (ii) each Party may keep one (1) copy of Confidential Information received from the other Party in its confidential files for archival purposes. Notwithstanding the foregoing, neither Party shall be required to delete or destroy any electronic back-up files that have been created solely by the automatic or routine archiving and back-up procedures of such Party, to the extent created and retained in a manner consistent with its or their standard archiving and back-up procedures. For the avoidance of doubt, each of the foregoing exceptions to the Parties' obligations to return or destroy Confidential Information upon termination of this Agreement are subject to the terms and conditions set forth in Section 8, including the Parties' obligations with respect to the retention of Confidential Information set forth in Section 8.1.

(c) <u>Sale of Existing Inventory</u>. For a period of one hundred eighty (180) calendar days following the effectiveness of termination of this Agreement, Avenue may sell existing inventory of Licensed Product owned by Avenue or any of its Affiliates as of the effective date of such termination, provided that Avenue pays to Licensor royalties owing thereon pursuant to <u>Section 6.3(a)</u> and such sale complies with all Applicable Laws in the Territory.

11.9 <u>Specific Effects of Termination</u>. Upon termination of this Agreement in its entirety (or with respect to the applicable Terminated Country(ies) or Terminated Product(s)) by Avenue pursuant to <u>Section 11.4</u>, or by Licensor pursuant to <u>Sections 11.3</u>, <u>11.5</u>, or <u>11.6</u>:

(a) the rights and licenses granted to Avenue under Section 2.1 with respect to such Terminated Country(ies) and Terminated Product(s) shall be terminated and all such rights shall revert to Licensor, except to the extent and for so long as necessary for Avenue to fulfil its responsibilities under the surviving terms of this Agreement as provided in Section 11.10, it being agreed that all such activities shall be discontinued and ceased (unless otherwise agreed or required under Applicable Law) by transitioning such activities and responsibilities to Licensor as promptly as possible, subject to Applicable Law. Avenue's failure to cease the Development, Manufacture (if applicable), and/or Commercialization of the Licensed Products upon the expiration or earlier termination of this Agreement may result in immediate and irreparable damage to Licensor. Avenue acknowledges that no adequate remedy at law exists for such failure, and Avenue agrees that Licensor may be entitled to seek an injunction or other equitable relief to prevent a breach of this Agreement by Avenue;

(b) upon Licensor's written instruction, Avenue shall as soon as reasonably practicable transfer and assign (to the extent permitted) to Licensor all Regulatory Materials Controlled by Avenue, in each case, to the extent solely related to the Terminated Product(s) and necessary for Developing, Manufacturing, or Commercializing such Terminated Product(s) in the Field in the Territory;

(c) any and all sublicense agreements entered into by Avenue or any of its Affiliates with a Sublicensee pursuant to this Agreement with respect to the Terminated Product(s) and Terminated Country(ies), as applicable, shall survive such termination of this Agreement, remain in full force and effect and automatically be assigned to Licensor, with Licensor as each such Sublicensee's direct licensor, respect to the Licensed Patents and Licensed Know-How, provided that (i) such Sublicensee's payment obligations with respect to its exercise of its surviving rights to the Licensed Patents and Licensed Know-How (but not with respect to its exercise or enjoyment of any other rights or assets) shall, in lieu of any payment obligations set forth in applicable sublicense agreement, be the corresponding payment obligations set forth in this Agreement, and (ii) such Sublicensee observes the same or higher diligence standards set forth in <u>Section 4</u> of this Agreement;

(d) each Party shall have the right to use the other Party's Confidential Information solely to the extent necessary to exercise any surviving rights and fulfill any surviving obligations under this Agreement; subject to the terms and conditions of <u>Section 8</u> of this Agreement; and

(e) if at the effective date of termination, Avenue, its Affiliate, or its Sublicensee is Manufacturing Licensed Product(s), then, if Licensor requests in writing to Avenue within sixty (60) calendar days of the effective date of termination, subject to the Parties' negotiation and execution of a reasonable and customary transitional supply and quality agreement, and provided this Agreement is not terminated pursuant to <u>Section 11.3</u>. Avenue agrees to cause itself, its Affiliates, or its Sublicensee to Manufacture and supply such Licensed Product(s) to Licensor for a reasonable transitional period, not to exceed three hundred (300) days from the effective date of termination, pursuant to which such Licensed Products shall be supplied at one hundred thirty percent (130%) of the Cost of Goods as of the effective date of such transitional supply and quality agreement as further defined.

11.10 Surviving Provisions.

(a) <u>Accrued Rights; Remedies</u>. The expiration or termination of this Agreement for any reason shall be without prejudice to any rights that shall have accrued to the benefit of any Party prior to such expiration or termination, and any and all damages or remedies (whether at law or in equity) arising from any breach hereunder, each of which shall survive expiration or termination of this Agreement. Such expiration or termination shall not relieve any Party from obligations which are expressly indicated to survive expiration or termination of this Agreement. Except as otherwise expressly set forth in this Agreement, the termination provisions of this <u>Section 11</u> are in addition to any other relief and remedies available to either Party under this Agreement, at law or in equity.

(b) <u>Survival</u>. Without limiting the provisions of <u>Section 11.10(a)</u>, the rights and obligations of the Parties set forth in the following Sections shall survive the expiration or termination of this Agreement, in addition to those other terms and conditions that are expressly stated to survive termination or expiration of this Agreement: <u>Sections 1</u> (Definitions) (to the extent the definitions are used in other surviving provisions); <u>8</u> (Confidentiality) <u>10</u> (Indemnification; Insurance; Limitation of Liability); <u>11</u> (Term & Termination); and <u>12</u> (Miscellaneous).

12. Miscellaneous

12.1 Severability. If one (1) or more of the terms or provisions of this Agreement is held by a court of competent jurisdiction to be void, invalid, or unenforceable in any situation in any jurisdiction, such holding shall not affect the validity or enforceability of the remaining terms and provisions hereof or the validity or enforceability of the void, invalid or unenforceable term or provision in any other situation or in any other jurisdiction, and such term or provision shall be considered severed from this Agreement tas left or such situation and solely in such jurisdiction, unless the void, invalid, or unenforceable term or provision is of such essential importance to this Agreement that it is to be reasonably assumed that the Parties would not have entered into this Agreement without the void, invalid, or unenforceable term or provision. If the final judgment of such court declares that any term or provision hereof is void, invalid, or unenforceable, the Parties agree to: (a) reduce the scope, duration, area, or applicability of the term or provision or to delete specific words or phrases to the minimum extent necessary to cause such term or provision as so reduced or amended to be enforceable; and (b) make a good-faith effort to replace any void, invalid, or unenforceable term or provision such that the objectives contemplated by the Parties when entering this Agreement may be realized.

12.2 Notices. Any notice required or permitted to be given by this Agreement shall be in writing and in English and shall be: (a) delivered by hand or by overnight courier with tracking capabilities; or (b) mailed postage prepaid by first class, registered, or certified mail, in each case, addressed as set forth below unless changed by notice so given.

Address for notices to Licensor:

Address for notices to Licensor:

AnnJi Pharmaceutical Co. Ltd. Attn: Wendy Huang [***]

with a copy to (which copy shall not constitute notice hereunder):

Greenberg Traurig, LLP Attn: [***]

Avenue Therapeutics, Inc. Attn: CEO 2 Gansevoort Street, 9th Floor New York NY 10014, USA [***]

with a copy to (which copy shall not constitute notice hereunder):

Avenue Therapeutics, Inc. Attn: Legal 2 Gansevoort Street, 9th Floor New York NY 10014, USA [***]

Any such notice shall be deemed given on the date received, except any notice received after 5:30 p.m. (in the time zone of the receiving Party) on a Business Day or received on a non-Business Day shall be deemed to have been received on the next Business Day. A Party may add, delete, or change the person or address to which notices should be sent at any time upon written notice delivered to the other Parties in accordance with this <u>Section 12.2</u>.

12.3 <u>Force Majeure</u>. A Party shall not be liable for delay or failure in the performance of any of its obligations hereunder if such delay or failure is due to a cause beyond the reasonable control of such Party (each, a "*Force Majeure Event*"), including acts of God, fires, earthquakes, acts of war, terrorism, or civil unrest, or hurricane or other inclement weather, provided that the affected Party: (a) promptly notifies the other Party; and (b) shall use its commercially reasonable efforts to avoid or remove such causes of non-performance and to mitigate the effect of such occurrence, and shall continue performance in accordance with the terms of this Agreement whenever such causes are removed. When such circumstances arise and persist for more than ninety (90) days, the Parties shall negotiate in good faith any modifications of the terms of this Agreement that may be necessary or appropriate in order to arrive at an equitable solution.

12.4 Assignment.

(a) <u>Generally</u>. Except as expressly permitted herein, this Agreement may not be assigned or transferred by any Party, nor may any Party assign or transfer any rights or obligations created by this Agreement, except as expressly permitted hereunder without first obtaining the prior written consent of the other Party, which consent shall not be unreasonably withheld, conditioned, or delayed. Notwithstanding the foregoing, either Party may assign this Agreement, without such consent, to its successor in interest in connection with a transaction or series of transactions with one or more Third Parties that is: (i) a merger, share exchange, or other reorganization of the assigning Party; (ii) the sale, by one or more stockholders or holders of equity securities, of stock or equity securities representing a majority of the voting power of the assigning Party; or (iii) the sale or exclusive license of all or substantially all of the assigning Party, or a sale of all or substantially all of the assigning Party; for which, in the case of the foregoing clauses (i) or (ii), the stockholders or holders of other equity securities of the assigning Party prior to such transaction do not own a majority of the voting power of the acquiring, surviving, or successor entity, as the case may be.

(b) <u>Notice of Assignment by Avenue</u>. In the event of any assignment by Avenue pursuant to <u>Section 12.4(a)</u>, Avenue shall: (i) notify Licensor of such assignment, which notice shall include the identity of the assignee; (ii) upon Licensor's reasonable request, promptly provide any background information regarding such assignment which is in Avenue's possession; and (iii) cause assignee to agree in writing to be legally bound by this Agreement.

(c) <u>All Other Assignments Null and Void</u>. The terms of this Agreement shall be binding upon and shall inure to the benefit of the successors, heirs, administrators and permitted assigns of the applicable Party. Any purported assignment in violation of this <u>Section 12.4</u> shall be null and void *ab initio*.

12.5 <u>Waivers; Modifications</u>. The failure of any Party to insist on the performance of any obligation hereunder shall not be deemed to be a waiver of such obligation. Waiver of any breach of any provision hereof shall not be deemed to be a waiver of any other breach of such provision or any other provision on such occasion or any succeeding occasion. No waiver, modification, release, or amendment of any obligation under or provision of this Agreement shall be valid or effective unless in writing and signed by the Parties.

12.6 <u>Export Control</u>. This Agreement is made subject to any restrictions concerning the export of Licensed Products or technical information from the United States or other countries that may be imposed on the Parties from time to time. Each Party agrees that it shall not export, directly or indirectly, any technical information acquired from the other Party under this Agreement or any Licensed Products using such technical information to a location or in a manner that at the time of export requires an export license or other governmental approval, without first obtaining the written consent to do so from the appropriate agency or other governmental authority or Regulatory Authority in accordance with Applicable Law.

12.7 Governing Law; Dispute Resolution; Jurisdiction.

(a) <u>Governing Law</u>. This Agreement shall be governed by, enforced, and construed in accordance with the laws of the State of New York without reference to any rules of conflict of laws and excluding the United Nations Convention on Contracts for the International Sales of Goods.

(b) <u>Dispute Resolution</u>. The Parties agree that the procedures set forth in <u>Section 12.7(c)</u> shall be the exclusive mechanism for resolving any dispute (whether in contract, tort or otherwise), controversy, or claim between the Parties arising out of or in connection with this Agreement, any Party's rights or obligations under this Agreement, breach of this Agreement, or the transactions contemplated by this Agreement (each, a "*Dispute*").

(c) <u>Resolution Process</u>.

(i) <u>Good Faith Negotiations</u>. In the event of Dispute between the Parties arising out of or relating to the terms of the Agreement, or the breach, termination, or invalidity thereof, a Party seeking to resolve such Dispute will, by written notice to the other Party, have such Dispute referred to their respective Executive Officers, for attempted resolution by good faith negotiations within fifteen (15) Business Days after such notice is received.

(ii) <u>Mediation</u>. If the Parties are unable to resolve a Dispute through good faith negotiations pursuant to <u>Section 12.7(c)(i)</u>, the Parties agree to submit such Dispute to non-binding mediation using an industry expert mutually acceptable to the Parties. Any such mediation will be conducted in New York, New York, under the then-current rules of Judicial Arbitration and Mediation Services. The costs of any such mediation shall be shared by the Parties equally.

(iii) If all good faith attempts to resolve a Dispute through negotiations and mediation pursuant to Sections 12.7(c)(i) and 12.7(c)(ii) fail, then sixty (60) Business Days after notice is provided pursuant to Section 12.7(c)(i), upon request of either Party, such Dispute shall be submitted to arbitration according to the Rules of Arbitration of the International Chamber of Commerce ("ICC") and shall be finally settled under such rules by a panel of three (3) arbitrators. Each Party shall nominate one (1) arbitrator and shall obtain its nominee's acceptance of such nomination within thirty (30) days after delivery of the request for arbitration. In the event a Party fails to nominate an arbitrator within this time period upon request of any Party, such arbitrator shall instead be appointed by the ICC in accordance with its rules within thirty (30) days of receiving such request. The third arbitrator, who shall act as chairman of the arbitration panel, shall be nominated by the two (2) arbitrators nominated by the Parties. If such third arbitrator is not so nominated within thirty (30) days of the date of nomination of the later of the two (2) party-nominated arbitrators, such third arbitrator shall be chosen in accordance with the ICC rules by the ICC. The place of arbitration shall be the Republic of Singapore. The language of the arbitration shall be English. The scope of the authority of the arbitrators shall be limited to the strict application of law. For the avoidance of doubt, the arbitrators shall not have the right to award any punitive damages. Except as may be required by Applicable Law, neither a Party nor its representatives nor a witness nor an arbitrator may disclose the existence, content, or results of any arbitration hereunder without the prior written consent of both Parties. Neither Party shall be required to give general discovery of documents, but may be required only to produce specific, identified documents or types of documents, which are relevant or considered relevant by the arbitrators to the dispute. Each of the Parties hereto irrevocably and unconditionally waives trial by jury in any legal action or proceeding relating to this Agreement. Each Party participating in an arbitration pursuant to the terms of this Agreement shall, subject to the award of the arbitrators, pay an equal share of the arbitrator's fees. The arbitrators shall have the power to award recovery of all costs (including reasonable attorney's fees, administrative fees, arbitrator's fees and court costs) to the prevailing Party. The arbitrators' award will be final and binding. The Parties expressly exclude any and all rights to appeal, set aside or otherwise challenge an award by the arbitrators, insofar as such exclusion can validly be made. It shall be a condition precedent to submitting a Dispute for arbitration that the Parties have sought to resolve the Dispute by either Party notifying the other Party in writing for resolution to the Executive Officers who shall meet (whether in person or via teleconference) within fifteen (15) Business Days of such notice to seek resolution in good faith. If the Executive Officers are unable to resolve the Dispute at such meeting, either Party may pursue any remedy available to such Party at law or in equity, subject to the terms and conditions of this Agreement, including this Section 12.7(c).



(iv) Notwithstanding the provisions of <u>Section 12.7(c)(iii)</u>, either Party may, without waiving any remedy under this Agreement, seek from any court having jurisdiction any equitable relief, including any injunctive or provisional relief and specific performance to protect the rights or property of that Party. Such remedies shall not be deemed to be the exclusive remedies for a breach of this Agreement but shall be in addition to all other remedies available at law or in equity.

(v) Until final resolution of the Dispute pursuant to <u>Section 12.7(c)(iii)</u>: (A) this Agreement shall remain in full force and effect; and (B) the time periods for cure as to any termination shall be tolled. The Parties further agree that any payments made pursuant to this Agreement pending resolution of the Dispute shall be refunded if the arbitrators determine that such payments are not due.

12.8 <u>Relationship of the Parties</u>. Licensor and Avenue are independent contractors under this Agreement. Nothing contained herein is intended or is to be construed so as to constitute either Party as a partner, agent, or joint venture of the other Party. No Party will incur any debts or make any commitments for the other Party, except to the extent, if at all, specifically provided therein. Neither Licensor nor Avenue, respectively, shall have any express or implied right or authority to assume or create any obligations on behalf of or in the name of Licensor and Avenue, respectively, or to bind Licensor and Avenue, respectively, to any contract, agreement, or undertaking with any Third Party.

12.9 <u>Fees and Expenses</u>. Except as otherwise specified in this Agreement, each Party shall bear its own costs and expenses (including investment banking and legal fees and expenses) incurred in connection with this Agreement and the transactions contemplated hereby.

12.10 <u>Third-Party Beneficiaries</u>. There are no express or implied Third-Party beneficiaries hereunder. The provisions of this Agreement are for the exclusive benefit of the Parties, and no other Person or entity shall have any right or claim against any Party by reason of these provisions or be entitled to enforce any of these provisions against any Party, except for with respect to the applicable indemnification provisions set forth in <u>Sections 10.1, 10.2</u>, and <u>10.3</u>.

12.11 Entire Agreement. This Agreement (together with any Exhibits or Schedules attached hereto) contains the entire agreement by the Parties with respect to the subject matter hereof and supersedes any prior express or implied agreements, understandings, and representations, either oral or written, which may have related to the subject matter hereof in any way, including any and all term sheets relating to the transactions contemplated by this Agreement and exchanged between the Parties prior to the Effective Date. In the event of any conflict, this Agreement shall prevail.

12.12 <u>Signatures; Counterparts</u>. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterparts may be delivered via email in ".pdf" form with any electronic signature complying with the U.S. federal ESIGN Act of 2000 (*e.g.*, DocuSign), or via other transmission method.

12.13 Equitable Relief; Cumulative Remedies. Notwithstanding anything to the contrary herein, the Parties shall be entitled to seek equitable relief, including injunction and specific performance as a remedy for any breach of this Agreement. Such remedies shall not be deemed to be the exclusive remedies for a breach of this Agreement but shall be in addition to all other remedies available at law or in equity. The Parties further agree not to raise as a defense or objection to the request or granting of such relief that any breach of this Agreement is or would be compensable by an award of money damages. No remedy referred to in this Agreement is intended to be exclusive, but each shall be cumulative and in addition to any other remedy referred to in this Agreement or otherwise available under Applicable Law.

12.14 Interpretation.

(a) <u>Generally</u>. This Agreement has been diligently reviewed by and negotiated by and between the Parties, and in such negotiations each of the Parties have been represented by competent (in-house or external) counsel, and the final agreement contained herein, including the language whereby it has been expressed, represents the joint efforts of the Parties and their counsel. Accordingly, in interpreting this Agreement or any provision hereof, no presumption shall apply against any Party as being responsible for the wording or drafting of this Agreement or any such provision, and ambiguities, if any, in this Agreement and shall not be construed against any Party, irrespective of which Party may be deemed to have authored the ambiguous provision.

(b) <u>Definitions; Interpretation</u>.

(i) The definitions of the terms herein shall apply equally to the singular and plural forms of the terms defined and, where a word or phrase is defined herein, each of its other grammatical forms shall have a corresponding meaning.

(ii) Whenever the context may require, any pronoun shall include the corresponding masculine, feminine, and neuter forms.

(iii) The word "will" shall be construed to have the same meaning and effect as the word "shall."

(iv) The words "includes," "includes," "for example," and "e.g.," and words of similar import, shall be deemed to be followed by the words "without limitation."

(v) The word "or" shall be interpreted to mean "and/or," unless the context requires otherwise.

(vi) The words "hereof," "herein," and "herewith," and words of similar import, shall, unless otherwise stated, be construed to refer to this Agreement as a whole and not to any particular provision of this Agreement.

(vii) Unless expressly stated otherwise or required by the applicable context: (A) all references herein to Sections, Schedules, or Exhibits shall be construed to refer to Sections, Schedules, and Exhibits of this Agreement; and (B) all references in any Section to any clause or subclauses shall be construed to refer to the clauses or subclauses of such Section.

(c) <u>Subsequent Events</u>. Unless the context requires otherwise: (i) any definition of or reference to any agreement, instrument, or other document herein shall be construed as referring to such agreement, instrument, or other document as from time to time amended, supplemented, or otherwise modified (subject to any restrictions on such amendments, supplements, or modifications set forth herein); (ii) any reference to any Applicable Law herein shall be construed as referring to such Applicable Law as from time to time enacted, repealed, or amended; and (iii) subject to <u>Section 12.4</u>, any reference herein to any Person shall be construed to include the Person's successors and assigns.

(d) <u>Headings</u>. Section headings, captions, and the like are for convenience only and shall not be used in the interpretation or construction of this Agreement.

(e) <u>Independent Significance</u>. Although the same or similar subject matter may be addressed in different provisions of this Agreement, the Parties intend that, except as reasonably apparent on the face of the Agreement or as expressly provided in this Agreement, each such provision shall be read separately, be given independent significance, and not be construed as limiting any other provision of this Agreement (whether or not more general or more specific in scope, substance, or content).

12.15 <u>Further Assurances</u>. Each Party shall execute, acknowledge, and deliver such further instruments, and do all such other ministerial, administrative, or similar acts, as may be reasonably necessary or appropriate in order to carry out the expressly stated purposes and the clear intent of this Agreement.

12.16 Extension to Affiliates. Subject to Sections 2.2 (Sublicensing), <u>6.5(b)</u> (Taxes; Withholding), and <u>12.4</u> (Assignment), Each Party may extend (but not assign) the rights, licenses, immunities, and obligations granted in this Agreement to one (1) or more of its Affiliates, provided that each Party shall be liable for the acts and omissions of its Affiliates. All applicable terms and provisions of this Agreement shall apply to any such Affiliate to which this Agreement has been extended to the same extent as such terms and provisions apply to each Party.

[Signature Page Follows]

IN WITNESS WHEREOF, the Parties have executed this LICENSE AGREEMENT by the signature of their duly authorized representatives, effective as of the Effective Date.

ANNJI PHARMACEUTICAL CO. LTD,

By: /s/ Wendy Huang

Name: Wendy Huang

Title: Chair and President

AVENUE THERAPEUTICS, INC.

By: /s/ Alexandra MacLean

Name: Alexandra MacLean

Title: Chief Executive Officer

[Signature Page to AnnJi – Avenue License Agreement]

Exhibit A

Licensed Molecule

[Exhibit A to AnnJi - Avenue License Agreement] A-1

<u>Exhibit B</u>

Licensed Patents

[Exhibit B to AnnJi – Avenue License Agreement] B-1

<u>Exhibit C</u>

Charter

<u>Exhibit D</u>

Form of Subscription Agreement

[Exhibit D to AnnJi - Avenue License Agreement] D-1

<u>Exhibit E</u>

Form of Registration Rights Agreement

[Exhibit E to AnnJi – Avenue License Agreement] E-1

<u>Exhibit F</u>

Term Sheet for Clinical Supply Agreement

[Exhibit F to AnnJi – Avenue License Agreement] F-1

<u>Exhibit G</u>

Advisor Qualifications

[Exhibit G to AnnJi - Avenue License Agreement] G-1

<u>Exhibit H</u>

Commercial Supply Agreement Arbitration

[Exhibit H to AnnJi – Avenue License Agreement] H-1

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) WOULD BE COMPETITIVELY HARMFUL IF PUBLICLY DISCLOSED.

REGISTRATION RIGHTS AGREEMENT

This Registration Rights Agreement (the "<u>Agreement</u>"), dated as of February 28, 2023, is made by and among Avenue Therapeutics, Inc. a Delaware corporation (the "<u>Company</u>"), and AnnJi Pharmaceutical Co. Ltd. ("<u>Annji</u>").

WHEREAS, concurrently with the execution of this Agreement, the Company issued to Annji 831,618 shares (the "<u>Initial Shares</u>") of the Company's common stock, par value \$0.0001 per share ("<u>Common Stock</u>"), at an initial closing of the transactions contemplated under that certain License Agreement, dated of even date herewith, between the Company and Annji (the "<u>License Agreement</u>");

WHEREAS, the License Agreement contemplates a subsequent issuance of additional shares of Common Stock (the "Subsequent Shares") by the Company to Annji; and

WHEREAS, in order to induce the Annji to enter into the transactions described in the preceding recitals, the Company has agreed to provide to Annji the registration rights set forth in this Agreement;

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties to this Agreement hereby agree as follows:

ARTICLE I DEFINITIONS

The following terms, as used herein, have the following meanings:

"Annji" has the meaning set forth in the preamble.

"Agreement" has the meaning set forth in the preamble.

"Block Trade" means an offering and/or sale of Registrable Securities by any Holder on a block trade or underwritten basis (whether firm commitment or otherwise) without substantial marketing efforts prior to pricing, including, without limitation, a same day trade, overnight trade or similar transaction.

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

"Commission" means the U.S. Securities and Exchange Commission.

"Common Stock" has the meaning set forth in the recitals.

"Company" has the meaning set forth in the preamble and includes the Company's successors by merger, acquisition, reorganization or otherwise.

"Effectiveness Date" has the meaning set forth in Section 2.1.

"Exchange Act" means the U.S. Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated by the Commission thereunder.

"Holder" means Annji or any transferee or assignee of any Registrable Securities to whom Annji (or any transferee or assignee of Annji) assigns its rights under this Agreement and who agrees to become bound by the provisions of this Agreement in accordance with <u>Section 5.8</u>.

"Indemnified Party" has the meaning set forth in Section 4.3.

"Indemnifying Party" has the meaning set forth in Section 4.3.

"Initial Shares" has the meaning set forth in the recitals.

"Inspectors" has the meaning set forth in Section 3.1(g).

"License Agreement" has the meaning set forth in the recitals.

"Person" or "Persons" means any individual, corporation, partnership, limited liability company, joint venture, association, joint-stock company, trust, unincorporated organization or other entity or government or other agency or political subdivision thereof.

"Records" has the meaning set forth in Section 3.1(g).

"Registrable Shares" means (i) all shares of Common Stock issuable to Annji under the License Agreement (including, without limitation, the Initial Shares and the Subsequent Shares), and (ii) all capital stock of the Company or any successor entity issued with respect to any share described in <u>item (i)</u> hereof, whether by stock dividend, stock distribution, stock split or otherwise. As to any particular Registrable Shares, such securities shall only cease to be Registrable Shares when (a) a registration statement with respect to the sale of such securities has been declared effective by the Commission and such particular Registrable Shares have been disposed of under such registration statement, (b) such securities are sold under circumstances in which all of the applicable conditions of Rule 144 are met; (c) such securities become eligible for sale pursuant to Rule 144 without volume or manner-of-sale restrictions and without the requirement for the Company to be in compliance with the current public information requirement under Rule 144(c)(1), or (d) such Registrable Shares have ceased to be outstanding.

"Registration Expenses" has the meaning set forth in Section 3.2.

"Rule 144" means Rule 144 (or any successor rule of similar effect) promulgated under the Securities Act.

"Rule 415" means Rule 415 (or any successor rule of similar effect) promulgated under the Securities Act.

"Securities Act" means the U.S. Securities Act of 1933, as amended, and the rules and regulations promulgated by the Commission thereunder.

"Shelf Registration Period" has the meaning set forth in Section 2.2.

"Shelf Registration Statement" has the meaning set forth in Section 2.1.

"Subsequent Shares" has the meaning set forth in the recitals.

"Successor" has the meaning set forth in Section 5.9.

"Underwriter" means a securities dealer who purchases any Registrable Shares or other securities of the Company as a principal for the resale of such securities and not as part of such dealer's market-making activities.

"Underwritten Offering" means any sale of Common Stock for the account of the Company to an Underwriter or Underwriters on a firm commitment basis.

ARTICLE II REGISTRATION RIGHTS

Section 2.1 <u>Shelf Registration</u>. The Company shall (i) prepare and file with the Commission registration statements on Form S-1 (or Form S-3, if available for use by the Company for the registration of the resale of the Initial Shares and Subsequent Shares) with respect to all of the Registrable Shares (each such registration statement, including any replacement registration statement, the "<u>Shelf Registration Statement</u>") as soon as practicable and in any event no later than six (6) months following the date hereof, which Shelf Registration Statement (A) shall comply as to form in all material respects with the requirements of the applicable form and include, by reference or therewith, all financial statements required by the Commission to be filed therewith or be incorporated therein and (B) shall be reasonably acceptable to coursel to Annji, and (ii) use reasonable best efforts to cause the Shelf Registration Statement to be declared effective by the Commission as soon as practicable thereafter (the "<u>Effectiveness</u> <u>Date</u>"). The Shelf Registration Statement shall be on an appropriate form and shall provide for the resale of the Registrable Shares from time to time, including pursuant to Rule 415.

Section 2.2 <u>Shelf Registration Period</u>. Subject to <u>Section 2.3</u> hereof, the Company shall use reasonable best efforts to keep the Shelf Registration Statement continuously effective for the period beginning on the Effectiveness Date and ending on the date on which all of the Registrable Shares the resale of which has been registered under the Shelf Registration Statement cease to be Registrable Shares (the "<u>Shelf Registration Period</u>"). During the Shelf Registration Period, the Company shall (i) subject to <u>Section 2.3</u> hereof, prepare and file with the Commission such amendments and post-effective amendments to the Shelf Registration Statement as may be necessary to keep the Shelf Registration Statement continuously effective for the Shelf Registration Period, and shall use commercially reasonable efforts to cause each such amendment to be declared effective by the Commission, if required, as soon as practicable after the filing thereof, (ii) subject to <u>Section 2.3</u> hereof, use commercially reasonable efforts to cause any related prospectus to be supplemented by any required supplement, and as so supplemented to be filed with the Commission pursuant to Rule 424 under the Securities Act (or any similar provisions then in force under the Securities Act), to the extent required, and (iii) comply in all material respects with the provisions of the Securities Act with respect to the disposition of all securities covered by the Shelf Registration Statement during the applicable period in accordance with the intended methods of disposition in market transactions as may be reasonably requested from time to time by Annji and set forth in the Shelf Registration Statement as so amended or such prospectus as so supplemented.

Section 2.3 Suspension.

(a) Notwithstanding anything set forth herein, the Company may, upon written notice to each Holder, suspend the use, from time to time, of the prospectus that is part of the Shelf Registration Statement (and therefore suspend sales under the Shelf Registration Statement) if any of the following occurs:

(i) the representative of the Underwriters has advised the Company in writing that the sale of the Registrable Shares under the Shelf Registration Statement would have a material adverse effect on an Underwritten Offering;

(ii) a majority of the independent directors of the Board of Directors (as determined in accordance with Nasdaq Stock Exchange and Commission rules and regulations) determines in good faith that: (a) the offer or sale of any of Registrable Shares under the Shelf Registration Statement would materially impede, delay or interfere with any proposed financing, offer or sale of securities, acquisition, corporate reorganization or other significant transaction involving the Company or its subsidiaries, (b) the sale of the Registrable Shares under the Shelf Registration Statement would require disclosure of non-public material information not otherwise required to be disclosed under applicable law, and (c) (x) the Company has a bona fide business purpose for preserving the confidentiality of a proposed transaction, (y) disclosure would have a material adverse effect on the Company or the Company's ability to consummate the proposed transaction, or (z) the proposed transaction renders the Company unable to comply with Commission requirements, in each case under circumstances that would make it impracticable or inadvisable to cause the Shelf Registration Statement (or such filings) to become effective or promptly amend or supplement the Shelf Registration Statement, as applicable; or

(iii) a majority of the independent directors of the Board of Directors determines in good faith that the Company is required by law, rule or regulation, or that it is in the Company's best interests, to supplement the Shelf Registration Statement or file a post-effective amendment to the Shelf Registration Statement in order to incorporate information into the Shelf Registration Statement for the purpose of: (a) including in the Shelf Registration Statement and prospectus required under Section 10(a)(3) of the Securities Act, (b) reflecting in the prospectus included in the Shelf Registration Statement any facts or events arising after the effective date of the Shelf Registration Statement (or of the most-recent post-effective amendment) that, individually or in the aggregate, represents a fundamental change in the information set forth in the prospectus or (c) including in the prospectus included in the Shelf Registration Statement any material information with respect to the plan of distribution not disclosed in the Shelf Registration Statement or any material change to such information.

Any such suspension under this Section 2.3 shall continue until the date upon which the Company notifies each Holder in writing that suspension of such rights for the grounds set forth in this Section 2.3 is no longer necessary and such Holder has received copies of any required amendment or supplement to the relevant prospectus (or such earlier date required by the provisions of paragraph (c) of this Section 2.3, if applicable). The Company agrees to give such notice as promptly as practicable following the date that such suspension of rights is no longer necessary.

(b) Each Holder agrees by acquisition of the Registrable Shares that upon receipt of any notice from the Company of the happening of any event of the kind described in <u>Section 2.3(a)</u>, such Holder will forthwith discontinue its disposition of Registrable Shares pursuant to the Shelf Registration Statement relating to such Registrable Shares until the expiration of the applicable suspension period as provided in <u>Section 2.3(a)</u>.

(c) The cumulative periods of suspension under <u>Section 2.3</u> may not exceed (i) an aggregate of ninety (90) days in any rolling twelve (12) month period and (ii) an aggregate of thirty (30) days in any rolling ninety (90) day period, except as a result of a refusal by the Commission to declare any post-effective amendment to the Shelf Registration Statement effective after the Company has used all commercially reasonable efforts to cause the post-effective amendment to be declared effective by the Commission, in which case, the Company must terminate the suspension period immediately following the effective date of the post-effective amendment.

Section 2.4 Additional Registration Statements. Notwithstanding anything to the contrary contained in this Agreement, in the event the staff of the Commission (the "Staff") or the Commission seeks to characterize any offering pursuant to a Shelf Registration Statement filed pursuant to this Agreement as constituting an offering of securities by, or on behalf of, the Company, or in any other manner, such that the Staff or the Commission do not permit such Registration Statement to become effective and used for resales in a manner that does not constitute such an offering and that permits the continuous resale at the market by the Holders participating therein (or as otherwise may be acceptable to Annji) without being named therein as an "underwriter," then the Company shall reduce the number of shares to be included in such Shelf Registration Statement by all Holders until such time as the Staff and the Commission shall so permit such Shelf Registration Statement to become effective as aforesaid. In making such reduction, the Company shall reduce the number of shares to be included by all Holders on a pro rata basis (based upon the number of Registrable Securities otherwise required to be included for each Holders) unless the inclusion of shares by a particular Holder or a particular set of Holders are resulting in the Staff or the SEC's "by or on behalf of the Company" offering position, in which event the shares held by such Holder or set of Holders shall be the only shares subject to reduction (and if by a set of Holders on a pro rata basis by such Holders or on such other basis as would result in the exclusion of the least number of shares by all such Holders). In addition, in the event that the Staff or the Commission requires any Holder seeking to sell securities under a Shelf Registration Statement filed pursuant to this Agreement to be specifically identified as an "underwriter" in order to permit such Shelf Registration Statement to become effective, and such Holder does not consent to being so named as an underwriter in such Registration Statement, then, in each such case, the Company shall reduce the total number of Registrable Securities to be registered on behalf of such Holder, until such time as the Staff or the Commission does not require such identification or until such Holder accepts such identification and the manner thereof. In the event of any reduction in Registrable Securities pursuant to this Section, an affected Holder shall have the right to require, upon delivery of a written request to the Company signed by such Holder, the Company to file a Shelf Registration Statement within twenty (20) days of such request (subject to any restrictions imposed by Rule 415 or required by the Staff or the Commission) for resale by such Holder in a manner acceptable to such Holder, and the Company shall following such request cause to be and keep effective such registration statement in the same manner as otherwise contemplated in this Agreement for registration statements hereunder, in each case until such time as: (i) all of the Registrable Shares the resale of which has been registered under such additional Shelf Registration Statement cease to be Registrable Shares or (ii) such Holder agrees to be named as an underwriter in any such Shelf Registration Statement in a manner acceptable to such Holder as to all Registrable Securities held by such Holder and that have not theretofore been included in a Shelf Registration Statement under this Agreement (it being understood that the special demand right under this sentence may be exercised by a Holder multiple times and with respect to limited amounts of Registrable Securities in order to permit the resale thereof by such Holder as contemplated above).

Section 2.5 Shelf Takedowns. At any time when a Shelf Registration Statement is effective and its use has not been otherwise suspended by the Company in accordance with the terms of Section 2.3, so long as such Shelf Registration Statement has been filed on Form S-3, upon a written demand (a "Takedown Demand") by any Holder or Holders holding not less than 50% of the Registrable Securities (the "Initiating Holder"), the Company will facilitate in the manner described in this Agreement a "takedown" of Registrable Securities off of such Shelf Registration Statement (a "take down offering") and the Company shall pay all Registration Expenses in connection therewith; provided that the estimated market value of the Registrable Securities proposed to be sold by the Initiating Holder is at least \$1,000,000; and in any such event the Company will provide (x) in connection with any non-marketed underwritten takedown offering (other than a Block Trade), at least two (2) Business Days' notice of such Takedown Demand to each Holder (other than the Initiating Holder), (y) in connection with any Block Trade initiated prior to the three (3) year anniversary of the date hereof, notice of such Takedown Demand to each Holder (other than the Initiating Holder) no later than noon Eastern time on the Business Day prior to the requested Takedown Demand and (z) in connection with any marketed underwritten takedown offering, at least five (5) Business Days' notice of such Takedown Demand to each Holder (other than the Initiating Holder). In connection with (x) any non-marketed underwritten takedown offering initiated prior to the three (3) year anniversary of the date of this Agreement and (y) any marketed underwritten takedown offering, if any Holders entitled to receive a notice pursuant to the preceding sentence request inclusion of their Registrable Securities (by notice to the Company, which notice must be received by the Company no later than (A) in the case of a non-marketed underwritten takedown offering (other than a Block Trade), the Business Day following the date notice is given to such participant, (B) in the case of a Block Trade, by 10:00 p.m. Eastern time on the date notice is given to such participant and (C) in the case of a marketed underwritten takedown offering, three (3) Business Days following the date notice is given to such participant), the Initiating Holder and the other Holders that request inclusion of their Registrable Securities shall be entitled to sell their Registrable Securities in such offering. Each Holder agrees that such Holder shall treat as confidential the receipt of the notice of a Takedown Demand and shall not disclose or use the information contained in such notice without the prior written consent of the Company until such time as the information contained therein is or becomes available to the public generally, other than as a result of disclosure by the Holder in breach of the terms of this Agreement.

ARTICLE III REGISTRATION PROCEDURES

Section 3.1 Filings; Information. In connection with the registration of Registrable Shares pursuant to Article II:

(a) The Company may require any Holder to promptly furnish in writing to the Company such information regarding such Holder, the plan of distribution of the Registrable Shares and other information as the Company may be legally required to disclose in connection with such registration.

(b) The Company will, prior to filing any Shelf Registration Statement or any amendment or supplement thereto, furnish to Annji copies thereof and incorporate any comments reasonably proposed by Annji thereto, and thereafter furnish to Annji such number of copies of the Shelf Registration Statement, amendment and supplement thereto (in each case including all exhibits thereto and documents incorporated by reference therein) and the prospectus included in the Shelf Registration Statement (including each preliminary prospectus) as Annji may reasonably request in order to facilitate the sale of the Registrable Shares by Annji.

(c) After the filing of the Shelf Registration Statement, the Company will promptly notify Annji of any stop order issued or, to the Company's knowledge, threatened to be issued by the Commission and use its commercially reasonable efforts to prevent the entry of such stop order or to remove it if entered.

(d) In addition to the requirements imposed on the Company elsewhere herein, the Company will (i) qualify the Registrable Shares for offer and sale under such other securities or blue sky laws of such jurisdictions in the United States as Annji may reasonably request, (ii) keep each such registration or qualification (or exemption therefrom) effective during the Shelf Registration Period and (iii) do any and all other acts and things which may be necessary or advisable to enable any Holder to consummate the disposition of the Registrable Shares owned by such Holder in such jurisdictions; provided that the Company will not be required to (a) qualify to generally do business in any jurisdiction where it would not otherwise be required to qualify but for this <u>Section 3.1(d)</u>, (b) subject itself to taxation in any such jurisdiction, or (c) consent to general service of process in any such jurisdiction.

(e) The Company will as promptly as is practicable notify each Holder, at any time when a prospectus relating to the sale of the Registrable Shares is required by law to be delivered in connection with sales by an Underwriter or dealer, of the occurrence of any event requiring the preparation of a supplement or amendment to such prospectus so that, as thereafter delivered to the purchasers of such Registrable Shares, such prospectus will not contain an untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading and promptly make available to each Holder any such supplement or amendment. Upon receipt of any notice of the occurrence of any event of the kind described in the preceding sentence, each Holder will forthwith discontinue the offer and sale of Registrable Shares pursuant to the Shelf Registration Statement until receipt by such Holder of the copies of such supplemented or amended prospectus and, if so directed by the Company, such Holder shall deliver to the Company all copies, other than permanent file copies then in the possession of such Holder, of the most recent prospectus covering such Registrable Shares at the time of receipt of such notice. Furthermore, in the event the Company shall give such notice, the Company shall, as promptly as is practical, subject to the suspension rights under <u>Section 2.3</u>, if applicable, prepare a supplement or post-effective amendment to the Shelf Registrable Shares of the Registrable Shares being sold therein by reference, and file any other required document so that, as thereafter delivered to the purchasers of the Registrable of a material fact or omit to state a material fact required to be stated therein or necessary to make the statement or a supplement to the related prospectus or any document incorporated or deemed to be incorporated therein by reference, and file any other required document so tha

(f) If requested by the managing Underwriter or a Holder, the Company shall promptly incorporate in a prospectus supplement or post-effective amendment such information as the managing Underwriter or such Holder reasonably requests to be included therein, including without limitation, with respect to the Registrable Shares being sold by such Holder, the purchase price being paid therefor by the Underwriters and with respect to any other terms of the Underwritten Offering of the Registrable Shares to be sold in such offering, and promptly make all required filings of such prospectus supplement or post-effective amendment.

(g) The Company shall promptly make available for inspection by any Holder or any Underwriter participating in any disposition pursuant to the Shelf Registration Statement, and any attorney, accountant or other agent or representative retained by such Holder or any Underwriter (collectively, the "Inspectors"), all financial and other records, pertinent corporate documents and properties of the Company (collectively, the "Records"), as shall reasonably be necessary to enable them to exercise their due diligence responsibility, and cause the Company's officers, directors and employees to supply all information requested by any such Inspector in connection with the Shelf Registration Statement; *provided, however*, that unless the disclosure of such Records is necessary to avoid or correct a misstatement or omission in the Shelf Registration Statement or the release of such Records is ordered pursuant to a subpoena or other order from a court of competent jurisdiction, the Company shall not be required to provide any information under this <u>Section 3.1(g)</u> if (A) the Company believes, after consultation with counsel for the Company, that to do so would cause the Company to forfeit an attorney-client privilege that was applicable to such information or (B) if the Company has requested and been granted from the Commission confidential treatment of such information contained in any filing with the Commission or documents provided supplementally or otherwise.

(h) The Company shall cause the Common Stock included in any Shelf Registration Statement to be listed on each securities exchange on which securities issued by the Company are then listed, if the Registrable Shares so qualify.

(i) The Company shall provide a CUSIP number for the Registrable Shares included in the Shelf Registration Statement not later than the Effectiveness Date.

(j) The Company shall, during the period when the prospectus is required to be delivered under the Securities Act, promptly file all documents required to be filed with the Commission pursuant to Section 13(a) of the Exchange Act.

(k) If in the Company's sole discretion any of the Registrable Shares covered by the Shelf Registration Statement are to be sold in an Underwritten Offering, the Company will select the underwriter(s) and managing underwriter(s) that will manage such offering; provided that in the case of a Takedown Demand pursuant to <u>Section</u> <u>2.5</u>, the Initiating Holder will have the right to select such underwriter(s) and managing underwriter(s). A Holder may not participate in any Underwritten Offering hereunder unless such Holder (i) agrees to sell its Registrable Shares on the basis provided in any underwriting arrangements approved by the persons entitled hereunder to approve such arrangements and (ii) completes and executes all customary questionnaires, powers of attorney, indemnities, underwriting agreements and other documents reasonably required under the terms of such underwriting arrangements.

Section 3.2 <u>Registration Expenses</u>. In connection with any registration effected hereunder, the Company shall pay all expenses incurred in connection with such registration (the "<u>Registration Expenses</u>"), including without limitation: (i) registration and filing fees with the Commission, (ii) all fees and expenses of compliance with securities or blue sky laws (including fees and disbursements of counsel in connection with blue sky qualifications of the Registrable Shares), (iii) printing expenses, messenger and delivery expenses, (iv) fees and expenses incurred in connection with the listing or quotation of the Registrable Shares, (v) fees and expenses of counsel to the Company and the fees and expenses of independent certified public accountants for the Company, (vi) the fees and expenses of any additional experts retained by the Company in connection with such registration, (vii) fees and expenses of one counsel for the holders of Registrable Securities participating in such registration as a group in an amount not to exceed \$100,000 in the aggregate under this <u>Section 3.2</u>, regardless of the number of filings that may be needed hereunder, and (viii) the fees and expenses of other Persons retained by the Company, whether or not any registration statement becomes effective; provided that in no event shall Registration Expenses include any underwriting discounts or commissions or transfer taxes.

ARTICLE IV INDEMNIFICATION AND CONTRIBUTION

Section 4.1 Indemnification By the Company. The Company agrees to indemnify, defend and hold harmless each Holder and each Person, if any, that controls such Holder within the meaning of either Section 15 of the Securities Act or Section 20 of the Exchange Act, from and against any and all losses, claims, damages, liabilities, costs and expenses (including reasonable attorneys' fees) caused by, arising out of, resulting from or related to any untrue statement or alleged untrue statement of a material fact contained or incorporated by reference in the Shelf Registration Statement or prospectus relating to the Registrable Shares (as amended or supplemented if the Company shall have furnished any amendments or supplements thereto) or any preliminary prospectus, including all documents attached thereto or incorporated by reference therein, or caused by any omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, except insofar as such losses, claims, damages or liabilities are caused by or based upon any information furnished in writing to the Company by or on behalf of such Holder or by such Holder's failure to deliver a copy of the Shelf Registration Statement or prospectus or any amendments or supplements there on the Shelf Registration Statement or prospectus or any amendments or supplements there and except shares (as anterial fact required to be stated therein or necessary to make the statements therein not misleading, except insofar as such losses, claims, damages or liabilities are caused by or based upon any information furnished in writing to the Company by or on behalf of such Holder or by such Holder's failure to deliver a copy of the Shelf Registration Statement or prospectus or any amendments or supplements thereto after the Company has furnished such Holder with copies of the same; *provided, however*, that the Company shall have no obligation to indemnify any Holder under this sentence to the extent any su

Section 4.2 Indemnification By Holders. Each Holder, severally and not jointly, agrees to indemnify, defend and hold harmless the Company, its officers, directors and stockholders, and each Person, if any, that controls the Company within the meaning of either Section 15 of the Securities Act or Section 20 of the Exchange Act, from and against any and all losses, claims, damages, liabilities, costs and expenses (including reasonable attorneys' fees) caused by, arising out of, resulting from or related to any untrue statement or alleged untrue statement of a material fact contained or incorporated by reference in the Shelf Registration Statement or prospectus, relating to the Registrable Shares (as amended or supplemented if the Company shall have furnished any amendments or supplements thereto) or any preliminary prospectus, including all documents attached thereto or incorporated by reference therein, or caused by any omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, but only with reference to information furnished in writing by or on behalf of such Holder specifically for use in the Shelf Registration Statement or prospectus relating to the Registrable Shares, or any amendment or supplement thereto or any preliminary prospectus; provided, that the obligation to indemnify of each Holder hereunder shall not exceed an amount equal to the net proceeds (after underwriting fees, commissions or discounts) actually received by such Holder from the sale of Registrable Securities pursuant to such Shelf Registration Statement.

Section 4.3 <u>Conduct of Indemnification Proceedings</u>. In case any proceeding (including any investigation by any court, governmental, regulatory or administrative agency or commission or other governmental authority or instrumentality, domestic (federal, state or municipal) or foreign governmental entity) shall be instituted involving any Person in respect of which indemnity may be sought pursuant to <u>Section 4.1</u> or <u>Section 4.2</u>, such Person (the "<u>Indemnified Party</u>") shall promptly notify the Person against whom such indemnity may be sought (the "<u>Indemnifying Party</u>") in writing and the Indemnifying Party, upon the request of the Indemnified Party, shall retain counsel reasonably satisfactory to such Indemnified Party to represent such Indemnified Party and any others the Indemnifying Party may designate in such proceeding and shall pay the fees and disbursements of such counsel related to such proceeding. In any such proceeding, any Indemnified Party shall have the right to retain its own counsel, but the fees and expenses of such counsel shall be at the expense of such Indemnified Party unless (i) the Indemnifying Party and the Indemnified Party shall have mutually agreed to the retention of such counsel or (ii) the named parties to any such proceeding (including any impleaded or joined parties) include both the Indemnified Party and the Indemnified proceeding or potential differing interests between them. It is understood that the Indemnifying Party shall not, in connection with any proceeding or potential differing interests between them. It is understood that the Indemnifying Party shall not, in connection with any proceeding or related proceedings in the same jurisdiction, be liable for the fees and expenses of more than one separate firm of attorney (in addition to any local counsel) at any time for all such Indemnified Parties, and that all such fees and expenses shall be reimbursed as they are i

Section 4.4 Contribution.

(a) If the indemnification provided for in this <u>Article IV</u> is by operation of law unavailable to an Indemnified Party in respect of any losses, claims, damages or liabilities in respect of which indemnity is to be provided hereunder, then each such Indemnifying Party, in lieu of indemnifying such Indemnified Party, shall to the fullest extent permitted by law, contribute to the amount paid or payable by such Indemnified Party as a result of such losses, claims, damages or liabilities in such proportion as is appropriate to reflect the relative fault of such party in connection with the statements or omissions that resulted in such losses, claims, damages or liabilities, as well as any other relevant equitable considerations. The relative fault of the Company and a Holder shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by such party and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission.

(b) The Company and each Holder agrees that it would not be just and equitable if contribution pursuant to this <u>Section 4.4</u> were determined by pro rata allocation or by any other method of allocation that does not take account of the equitable considerations referred to in the immediately preceding paragraph. The amount paid or payable by an Indemnified Party as a result of the losses, claims, damages or liabilities referred to in the immediately preceding paragraph shall be deemed to include, subject to the limitations set forth above, any legal or other expenses reasonably incurred by such Indemnified Party in connection with investigating or defending any such action or claim. No Person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) shall be entitled to contribution from any Person who was not guilty of such fraudulent misrepresentation.

ARTICLE V MISCELLANEOUS

Section 5.1 <u>Rule 144</u>. The Company shall file any and all reports required to be filed by it under the Securities Act and the Exchange Act and shall take such further action as Annji may reasonably request to the extent required from time to time to enable it to sell Registrable Shares without registration under the Securities Act within the limitation of the exemptions provided by Rule 144 under the Securities Act, as such Rule may be amended from time to time, or any similar rule or regulation hereafter adopted by the Commission.

Section 5.2 <u>Market Stand Off</u>. In connection with the registration or offering of the Company's securities, upon the reasonable request of the Company and the managing Underwriter of any Underwritten Offering of the Company's securities, Annji (if it then is the beneficial owner of 5% or more of the Company's outstanding shares of capital stock) and any Holder that is then the beneficial owner of 5% or more of the Company's outstanding shares of capital stock each agree not to directly or indirectly sell, make any short sale of, Ioan, grant any option for the purchase of, or otherwise dispose of, any Registrable Shares without prior written consent of the Company, or such Underwriters, as the case may be, for such period of time prior to and following the effective date of such registration statement as the Company and the managing Underwriter may reasonably specify; *provided*, *however*, that:

(a) all executive officers and directors of the Company then holding Common Stock of the Company shall enter into similar agreements for not less than the time period required of Annji and such applicable Holders;

(b) neither Annji nor any Holder shall be allowed any concession or proportionate release allowed to any officer or director that entered into similar agreements; provided, that, any discretionary waiver or termination of the restrictions of any or all of such agreements by the Company or the underwriters shall apply pro rata to all other Company stockholders that are subject to such agreements, based on the number of shares subject to such agreements; and

(c) such agreement shall not restrict Annji or any Holder from selling, making any short sale of, loaning, granting any option for the purchase of, or otherwise disposing of, any Registrable Shares for a period of more than 90 days from the date of any applicable underwriting agreement entered into between the Company and the managing Underwriter of any Underwritten Offering.

In order to enforce the foregoing covenant in this <u>Section 5.2</u>, the Company shall have the right to place restrictive legends on the certificates representing the Registrable Shares subject to this <u>Section 5.2</u> and to impose stop transfer instructions with respect to the Registrable Shares and such other Common Stock of Annji or any applicable Holder (and the Common Stock or securities of every other Person subject to the foregoing restriction) until the end of such period.

Upon request, Annji and each applicable Holder agrees to execute a "lock-up" letter to such effect for the benefit of the Company or any Underwriter.

Section 5.3 <u>Amendments, Waivers</u>. This Agreement may not be amended, waived or otherwise modified or terminated except by an instrument in writing signed by the Company and Annji.

Section 5.4 <u>Counterparts</u>. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterparts may be delivered via email in ".pdf" form with any electronic signature complying with the U.S. federal ESIGN Act of 2000 (e.g., DocuSign), or via other transmission method.

Section 5.5 Entire Agreement. This Agreement (including the exhibits, schedules, annexes and appendices hereto) constitutes the entire agreement between the parties with respect to the subject matter hereof and thereof and supersedes all prior agreements and understandings, both written and oral, among the parties, or any of them, with respect to the subject matter hereof and thereof.

Section 5.6 Articles, Sections. Unless the context indicates otherwise, references to Articles, Sections and paragraphs shall refer to the corresponding articles, sections and paragraphs in this Agreement.

Section 5.7 <u>Governing Law; Dispute Resolution</u>. This Agreement shall be governed by, and construed in accordance with, the internal laws of the State of New York without regard to the principles of conflicts of laws. Each of the parties hereto hereby irrevocably consents, to the maximum extent permitted by law, that any action or proceeding relating to this Agreement or the transactions contemplated hereby shall be brought, at the option of the party instituting the action or proceeding, in any court of general jurisdiction in New York County, New York, in the United States District Court for the Southern District of New York or in any state or federal court sitting in the area currently comprising the Southern District of New York. Each of the parties hereto waives any objection that it may have to the conduct of any action or proceeding in any such court based on improper venue or *forum non conveniens*, waives personal service of any and all process upon it, and consents that all service of process may be made by mail or courier service directed to it at the address set forth herein and that service so made shall be deemed to be completed upon the earlier of actual receipt or ten (10) days after the same shall have been posted or delivered to a nationally recognized courier service. Nothing contained in this shall affect the right of any party hereto to serve legal process in any other manner permitted by law.

Section 5.8 Assignment of Registration Rights. All or any portion of the rights under this Agreement shall be assignable by Annji to any transferee or assignee (as the case may be) of all or any portion of Annji's Registrable Securities if:

- Annji agrees in writing with such transferee or assignee (as the case may be) to assign all or any portion of such rights, and a copy of such agreement is furnished to the Company within a reasonable time after such transfer or assignment (as the case may be);
- the Company is, within a reasonable time after such transfer or assignment (as the case may be), furnished with written notice of (a) the name and address of such transferee or assignee (as the case may be), and (b) the securities with respect to which such registration rights are being transferred or assigned (as the case may be);

- (iii) immediately following such transfer or assignment (as the case may be) the further disposition of such securities by such transferee or assignee (as the case may be) is restricted under the Securities Act or applicable state securities laws if so required;
- (iv) at or before the time the Company receives the written notice contemplated by <u>clause (ii)</u> of this sentence such transferee or assignee (as the case may be) agrees in writing with the Company to be bound by all of the provisions contained herein; and
- (v) such transfer or assignment (as the case may be) shall have been conducted in accordance with all applicable federal and state securities laws;

provided, however, that after the filing of the Shelf Registration Statement(s) covering the Initial Shares and Subsequent Shares, the Company shall only be required to prepare and file any post-effective amendment to the shelf Registration Statement, any new Registration Statement and/or any supplement to the prospectus contained in an effective Shelf Registration Statement that may be required to permit resales by such transferee or assignee under the Shelf Registration Statement, the costs and expenses of which shall be deemed to be Registration Expenses in accordance with Section 3.2 hereof, once per calendar year; provided; further, that Annji may request additional filings after the first filing during any calendar year and Annji shall be responsible for, and reimburse the Company for, the fees and expenses of counsel to the Company's auditors incurred in connection with such additional filings.

Section 5.9 <u>Parties in Interest</u>. This Agreement shall be binding upon and inure to the benefit of the Company and any successor organization that shall succeed to substantially all of the business and property of the Company, whether by merger, consolidation, acquisition of all or substantially all of the assets of the Company or otherwise, including by operation of law (each, a "<u>Successor</u>"). The Company hereby covenants and agrees that it shall cause any Successor to adopt and assume this Agreement. If a parent entity of the Company or its Successor becomes the issuer of the Registrable Shares, then the Company or such Successor shall cause such parent entity to adopt and assume this Agreement to the same extent as if the parent entity were the Company or such Successor.

Section 5.10 Notices. Any notice required or permitted to be given by this Agreement shall be in writing and in English and shall be: (a) delivered by hand or by overnight courier with tracking capabilities; or (b) mailed postage prepaid by first class, registered, or certified mail, in each case, addressed as set forth below unless changed by notice so given.

Address for notices to Annji:

AnnJi Pharmaceutical Co. Ltd. Attn: Wendy Huang [***]

with a copy to (which copy shall not constitute notice hereunder):

Greenberg Traurig, LLP Attn: [***] Avenue Therapeutics, Inc. Attn: CEO 1111 Kane Concourse, Suite 301 Bay Harbor Islands, FL 33154 [***]

with a copy to (which copy shall not constitute notice hereunder):

Avenue Therapeutics, Inc. Attn: Legal 1111 Kane Concourse, Suite 301 Bay Harbor Islands, FL 33154 [***]

Section 5.11 Headings. The headings contained in this Agreement are for convenience of reference only and are not part of the substance of this Agreement.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the Company has caused this Agreement to be signed by its duly authorized officer as of the date first written above.

Avenue Therapeutics, Inc.

By: /s/ Alexandra MacLean Alexandra MacLean, M.D., Chief Executive Officer

AnnJi Pharmaceutical Co. Ltd.

By: /s/ Wendy Huang

Name: Wendy Huang, Ph.D.

Title: Chair & President

[Signature page to Registration Rights Agreement]

Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, As Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Alexandra MacLean, M.D., certify that:

- 1. I have reviewed this Quarterly report on Form 10-Q of Avenue Therapeutics, 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 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 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.

/s/ Alexandra MacLean, M.D. Alexandra MacLean, M.D. Chief Executive Officer (Principal Executive Officer) May 12, 2023

Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, As Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, David Jin, certify that:

- 1. I have reviewed this Quarterly report on Form 10-Q of Avenue Therapeutics, 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 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 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.

/s/ David Jin David Jin Interim Chief Financial Officer (Principal Financial Officer) May 12, 2023

Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

I, Alexandra MacLean, M.D., Chief Executive Officer of Avenue Therapeutics, Inc. (the "Company"), in compliance with 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, hereby certify that, to my knowledge, the Company's Quarterly Report on Form 10-Q for the period ended March 31, 2023 (the "Report") filed with the Securities and Exchange Commission:

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

/s/ Alexandra MacLean, M.D.

Alexandra MacLean, M.D. Chief Executive Officer (Principal Executive Officer) May 12, 2023

Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

I, David Jin, Interim Chief Financial Officer of Avenue Therapeutics, Inc. (the "Company"), in compliance with 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, hereby certify that, to my knowledge, the Company's Quarterly Report on Form 10-Q for the period ended March 31, 2023 (the "Report") filed with the Securities and Exchange Commission:

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

/s/ David Jin

David Jin Interim Chief Financial Officer (Principal Financial Officer) May 12, 2023