

22nd Century Group, Inc.
Form 424B3
May 10, 2013

Prospectus Supplement Filed Pursuant to Rule 424(b)(3)

Registration No. 333-186449

22nd CENTURY GROUP, INC.

6,250,000 Shares of Common Stock

PROSPECTUS SUPPLEMENT NO. 1

DATED MAY 10, 2013

(To Prospectus Dated March 29, 2013)

This Prospectus Supplement No. 1, dated May 10, 2013 (“Supplement No. 1”), filed by 22nd Century Group, Inc. (the “Company”), modifies and supplements certain information contained in the Company’s prospectus, dated March 29, 2013 (as amended and supplemented from time to time, the “Prospectus”). This Supplement No. 1 is not complete without, and may not be delivered or used except in connection with, the Prospectus, including all amendments and supplements thereto. The Prospectus relates to the sale, from time to time, of up to 6,250,000 shares of the Company’s common stock, par value \$0.00001 per share, by the selling stockholders identified in the Prospectus.

The information attached to this Supplement No. 1 modifies and supersedes, in part, the information contained in the Prospectus. Any information that is modified or superseded in the Prospectus shall not be deemed to constitute a part of the Prospectus, except as so modified or superseded by this Supplement No. 1. This Supplement No. 1 includes the attached Quarterly Report on Form 10-Q for the quarter ended March 31, 2013, as filed by the Company with the Securities and Exchange Commission on May 10, 2013.

We may further amend or supplement the Prospectus from time to time by filing additional amendments or supplements as required. You should read the entire Prospectus and any amendments or supplements carefully before you make an investment decision.

Our common stock is traded on the OTC Bulletin Board under the symbol "XXII.OB". On May 8, 2013, the closing sale price of our common stock was \$0.66 per share.

Investing in our common stock involves risks. Before making any investment in our securities, you should read and carefully consider risks described in the "Risk Factors" section beginning on page 11 of the Prospectus.

The Securities and Exchange Commission and state securities regulators have not approved or disapproved these securities or determined if the Prospectus, or any of the supplements or amendments relating thereto, is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this Supplement No. 1 is May 10, 2013

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

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

For the Quarterly Period Ended March 31, 2013

“ 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: 000-54111

22nd Century Group, Inc.

(Exact name of registrant as specified in its charter)

Nevada 98-0468420
(State or other jurisdiction (IRS Employer
of incorporation) Identification No.)

9530 Main Street, Clarence, New York 14031

(Address of principal executive offices)

(716) 270-1523

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes No

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

Large Accelerated Filer Accelerated Filer

Non-accelerated Filer Smaller Reporting Company

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

As of May 7, 2013, there were 39,001,165 shares of common stock issued and outstanding.

22nd CENTURY GROUP, INC.

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22nd CENTURY GROUP INC. AND SUBSIDIARY**CONSOLIDATED BALANCE SHEETS****March 31, 2013 with Comparative Figures at December 31, 2012**

	March 31, 2013 (unaudited)	December 31, 2012
ASSETS		
Current assets:		
Cash	\$278,884	\$ 188
Due from related party	38,469	36,969
Due from officers	7,783	3,578
Inventory	1,231,013	1,230,526
Prepaid expenses	49,268	10,044
Total current assets	1,605,417	1,281,305
Other assets:		
Patent and trademark costs, net	1,338,507	1,353,304
Office furniture and fixtures, net	28,149	6,030
Deferred debt issuance costs, net	-	4,232
Total other assets	1,366,656	1,363,566
Total assets	\$2,972,073	\$2,644,871
LIABILITIES AND SHAREHOLDERS' DEFICIT		
Current liabilities:		
Demand bank loan	\$ 174,925	\$ 174,925
Accounts payable	212,328	1,410,650
Accrued interest payable to related parties	4,130	3,567
Accrued expenses	224,318	503,002
Preferred stock dividend payable	52,083	-
Notes payable	1,050,013	617,000
Convertible notes, net of unamortized discount	143,031	1,893,804
Total current liabilities	1,860,828	4,602,948
Long term portion of notes payable	175,000	-
Warrant liability	8,669,070	4,173,140
Total liabilities	10,704,898	8,776,088
Commitments and contingencies (Note 12)	-	-
Shareholders' deficit		
Capital stock authorized:		
10,000,000 preferred shares, \$.00001 par value		

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300,000,000 common shares, \$.00001 par value		
Capital stock issued and outstanding:		
2,500 convertible preferred shares, \$1,000 stated value, 10% cumulative (0 at December 31, 2012)	-	-
37,709,365 common shares (34,286,979 at December 31, 2012)	378	344
Capital in excess of par value	8,608,662	7,645,017
Accumulated deficit	(16,341,865)	(13,776,578)
Total shareholders' deficit	(7,732,825)	(6,131,217)
Total liabilities and shareholders' deficit	\$2,972,073	\$2,644,871

See accompany notes to consolidated financial statements.

22nd CENTURY GROUP INC. AND SUBSIDIARIES**CONSOLIDATED STATEMENTS OF OPERATIONS****Three Months Ended March 31, 2013 and 2012****(unaudited)**

	March 31, 2013	March 31, 2012
Revenue	\$ -	\$ -
Operating expenses:		
Research and development	190,748	87,734
General and administrative	1,148,132	309,790
Sales and marketing costs	-	3,834
Amortization and depreciation	52,624	45,958
	1,391,504	447,316
Operating loss	(1,391,504)	(447,316)
Other expense:		
Warrant liability change - net	(1,016,175)	(1,243,000)
Interest expense and amortization of debt discount and expense:		
Related parties	(6,547)	(138,281)
Other	(98,978)	(295,615)
	(1,121,700)	(1,676,896)
Net loss	(2,513,204)	(2,124,212)
Net loss attributable to non-controlling interest	-	1,456
Net loss attributed to common shareholders	\$ (2,513,204)	\$ (2,122,756)
Loss per common share - basic and diluted	\$ (0.07)	\$ (0.08)
Common shares used in basic earnings per share calculation	36,305,669	28,020,031

See accompany notes to consolidated financial statements.

22nd CENTURY GROUP INC. AND SUBSIDIARY**CONSOLIDATED STATEMENT OF SHAREHOLDERS' DEFICIT****Three Months Ended March 31, 2013****(unaudited)**

	Preferred Shares Outstanding	Common Shares Outstanding	Par value of Preferred Shares	Par value of Common Shares	Contributed Capital Common Shares	Accumulated Deficit	Shareholders' Deficit
Balance at December 31, 2012	-	34,286,979	\$ -	\$ 344	\$ 7,645,017	\$(13,776,578)	\$(6,131,217)
Common stock issued upon exercise of Convertible Notes	-	2,035,720	-	20	(20)	-	-
Preferred stock issued in January 2013 private placement	2,500	416,666	-	4	(4)	-	-
Stock based compensation	-	970,000	-	10	963,669	-	963,679
Accrued dividends on preferred stock	-	-	-	-	-	(52,083)	(52,083)
Net loss	-	-	-	-	-	(2,513,204)	(2,513,204)
Balance at March 31, 2013	2,500	37,709,365	\$ -	\$ 378	\$ 8,608,662	\$(16,341,865)	\$(7,732,825)

See accompany notes to consolidated financial statements.

22nd CENTURY GROUP INC. AND SUBSIDIARY**CONSOLIDATED STATEMENTS OF CASH FLOWS****Three Months Ended March 31, 2013 and 2012****(unaudited)**

	March 31, 2013	March 31, 2012
Cash flows from operating activities:		
Net loss	\$ (2,513,204)	\$ (2,124,212)
Adjustments to reconcile net loss to cash used by operating activities:		
Amortization and depreciation	52,624	45,958
Amortization of debt issuance costs	4,232	2,159
Amortization of debt discount	54,727	393,709
Interest due to debt conversion	17,386	20,750
Loss (gain) warrant liability - derivative	1,016,175	1,243,000
Equity based employee compensation expense	873,627	48,979
Equity based payments for outside services	90,051	10,750
Increase in assets:		
Inventory	(487)	(30)
Prepaid expenses	(39,224)	(51,433)
Increase (decrease) in liabilities:		
Accounts payable	(460,286)	350,926
Accrued interest payable to related parties	563	18,926
Accrued expenses	(233,306)	(235,711)
Net cash used by operating activities	(1,137,122)	(276,229)
Cash flows from investing activities:		
Acquisition of patents and trademarks	(14,620)	(500)
Acquisition of office furniture and fixtures	(13,985)	-
Net cash used by investing activities	(28,605)	(500)
Cash flows from financing activities:		
Proceeds from issuance of notes	150,000	25,000
Payments on borrowings - notes payable	(395,286)	-
Payments on borrowings - convertible notes	(339,250)	-
Net proceeds from January 2013 preferred stock private placement	2,034,664	-
Net payments to related party	(1,500)	(4,000)
Net advances (to) from officers	(4,205)	3,657
Net cash provided by financing activities	1,444,423	24,657
Net increase (decrease) in cash	278,696	(252,072)
Cash - beginning of period	188	252,249
Cash - end of period	\$ 278,884	\$ 177
Cash paid during the period for interest	\$ 30,550	\$ 196,539
Cash paid during the period for income taxes	\$ -	\$ -

2nd CENTURY GROUP INC. AND SUBSIDIARY**CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED)****Three Months Ended March 31, 2013 and 2012****(unaudited)**

	March 31, 2013	March 31, 2012
Supplemental disclosure of noncash investing and financing activities:		
Common stock issued as payment of accounts payable	\$ -	\$ 209,754
Accounts payable converted to promissory notes	\$ 769,377	\$ -
Accrued interest converted to promissory notes	\$ 26,422	\$ -
Common stock issued for prepaid services	\$ -	\$ 171,246
Notes payable and accrued interest converted to common shares	\$ -	\$ 86,250
Common stock issued for fees relating to January 2013 preferred stock private placement	\$ 416,666	\$ -
Preferred stock dividend payable	\$ 52,083	\$ -
Refinance of convertible note to note payable	\$ 57,500	\$ -
Issuance of warrants as derivative liability instruments upon conversion of notes payable and accrued interest	\$ 1,427,705	\$ 107,000
Issuance of warrants as derivative liability instruments and reduction of capital	\$ 2,034,664	\$ -
Patent and trademark additions included in accounts payable	\$ 22,633	\$ 19,395
Office furniture and fixture additions included in accounts payable	\$ 8,707	\$ -
Deferred debt issuance costs included in accounts payable	\$ -	\$ 5,000

See accompanying notes to consolidated financial statements.

22nd CENTURY GROUP, INC. AND SUBSIDIARY

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS MARCH 31, 2013

NOTE 1. - NATURE OF BUSINESS AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation - The accompanying unaudited consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles (GAAP) for interim financial information and with the instructions to Form 10-Q and Rule 8.03 of Regulation S-X for smaller reporting companies. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments, consisting of normal recurring accruals, considered necessary for a fair and non-misleading presentation of the financial statements have been included.

Operating results for the three months ended March 31, 2013 are not necessarily indicative of the results that may be expected for the year ending December 31, 2013. The balance sheet at December 31, 2012 has been derived from the audited financial statements at that date, but does not include all of the information and footnotes required by GAAP for complete financial statements. These interim consolidated financial statements should be read in conjunction with the December 31, 2012 audited consolidated financial statements and the notes thereto.

Nature of Business - 22nd Century Ltd, 22nd Century Group's wholly-owned subsidiary, is a plant biotechnology company specializing in technology that allows for the level of nicotine and other nicotinic alkaloids (e.g., nornicotine, anatabine and anabasine) in tobacco plants to be decreased or increased through genetic engineering and plant breeding. The Company owns or exclusively controls 109 issued patents in 78 countries plus an additional 39 pending patent applications. Goodrich Tobacco Company, LLC and Hercules Pharmaceuticals, LLC are subsidiaries of 22nd Century Ltd and are business units for the Company's (i) premium cigarettes and modified risk tobacco products and (ii) smoking cessation product, respectively.

Principles of Consolidation - The accompanying consolidated financial statements include the accounts of 22nd Century Group, its wholly owned subsidiary, 22nd Century Ltd, and 22nd Century Ltd's wholly owned subsidiaries, Goodrich Tobacco and Hercules Pharmaceuticals. In May 2012, 22nd Century Ltd acquired from an employee the non-controlling membership units of Goodrich Tobacco that it did not own so that Goodrich Tobacco became a wholly owned subsidiary. All intercompany accounts and transactions have been eliminated.

Reclassifications - Certain items in the 2012 financial statements have been reclassified to conform to the 2013 classification.

Preferred stock authorized - the authorization is for “blank check” preferred stock, which could be issued with voting, liquidation, dividend and other rights superior to our common stock. On January 11, 2013, the Company designated the rights of and issued 2,500 shares of Series A-1 Preferred Stock.

Inventory - Inventories are valued at the lower of cost or market. Cost is determined on the first-in, first-out (FIFO) method. Inventories are evaluated to determine whether any amounts are not recoverable based on slow moving or obsolete condition and are written off or reserved as appropriate. As of March 31, 2013 and December 31, 2012, the Company’s inventory consisted primarily of raw materials, mainly tobacco.

Intangible Assets - Intangible assets are recorded at cost and consist primarily of expenditures incurred with third parties related to the processing of patent claims and trademarks with government authorities. The Company also capitalized costs as a result of one of its exclusively licensed patent applications being subject to an interference proceeding invoked by the U.S. Patent and Trademark Office, which favorably resulted in the Company obtaining rights to a third party’s issued patents. The amounts capitalized relate to patents the Company owns or to which it has exclusive rights and its trademarks the Company owns, and exclude approximately \$1.8 million recovered from a former licensee as direct reimbursements of costs incurred. The Company’s intellectual property capitalized costs are amortized using the straight-line method over the remaining statutory life of the Company’s largest patent family, which expires in 2019 (the assets’ estimated lives). Periodic maintenance or renewal fees, which are generally due on an annual basis, are expensed as incurred. Annual minimum license fees are charged to expense in the year the licenses are effective. Total patent and trademark costs capitalized and accumulated amortization amounted to \$2,263,839 and \$925,332, respectively, as of March 31, 2013 (\$2,226,586 and \$873,282, respectively, as of December 31, 2012). The estimated annual amortization expense for the next five years is approximately \$208,000.

Impairment of Long-Lived Assets - The Company reviews the carrying value of its amortizing long-lived assets whenever events or changes in circumstances indicate that the historical cost-carrying value of an asset may no longer be recoverable. The Company assesses recoverability of the asset by estimating the future undiscounted net cash flows expected to result from the asset, including eventual disposition. If the estimated future of undiscounted net cash flows are less than the carrying value of the asset, an impairment loss is recorded equal to the difference between the asset’s carrying value and its fair value. There was no impairment loss recorded during the three months ended March 31, 2013 or 2012.

Deferred Debt Issuance Costs - The Company incurred costs related to a private placement of convertible notes that closed on December 14, 2011 (“Convertible Notes”). These costs were recorded on the balance sheet as a deferred charge and are being amortized over the term (including extension) of the Convertible Notes. There was no unamortized balance at March 31, 2013 (\$4,232 as of December 31, 2012). Amortization expense for the three months ended March 31, 2013 and 2012 amounted to \$4,232 and \$2,159, respectively.

Income Taxes - The Company is required to recognize deferred tax assets and liabilities for any basis differences in its assets and liabilities between tax and GAAP reporting, and for operating loss and credit carry-forwards. The Company’s federal and state tax returns for the years ended September 30, 2011 to December 31, 2012 are currently open to audit under the statutes of limitations. There are no pending audits as of March 31, 2013.

In light of the Company’s history of cumulative losses, management has determined that it is more likely than not that its net deferred tax asset will not be realized. Accordingly, the Company established a valuation allowance to fully offset its net deferred tax asset as of March 31, 2013 and December 31, 2012.

Stock Based Compensation - The Company uses a fair-value based method to determine compensation for all arrangements under which Company employees and others receive shares, options or warrants to purchase common shares of 22nd Century Group. Stock based compensation expense is recorded over the requisite service period based on estimates of probability and time of achieving milestones and vesting. For accounting purposes, the shares will be considered issued and outstanding upon vesting.

Debt Discounts - Original issue discount (“OID”) is recorded equal to the difference between the cash proceeds and the face value of the debt when issued and amortized as interest expense during the term of the debt.

When the convertible feature of conventional convertible debt is issued, the embedded conversion feature is evaluated to determine if bifurcation and derivative treatment is required and whether there is a beneficial conversion feature. When the convertible debt provides for an effective rate of conversion that is below market value, this feature is characterized as a beneficial conversion feature (“BCF”). Prior to the determination of the BCF, the proceeds from the debt instrument were first allocated between the convertible debt and any embedded or detachable free standing instruments that are included, such as common stock warrants. The proceeds allocated to any warrants are recorded as a debt discount.

For the Convertible Notes, bifurcation of the embedded conversion feature was not required and the Company recorded the OID and the BCF related to these Convertible Notes as a debt discount and recorded the Convertible Notes net of the discount related to both the OID and the BCF. Debt discount is amortized to interest expense over the life of the debt. In the case of any conversion prior to the maturity date there will be an unamortized amount of debt

discount that relates to such conversion. The prorata amount of unamortized discount at the time of such conversion is charged to interest expense as accelerated amortization of the discount. The fair value of warrants issued at the time of conversion is recorded as a reduction of the amount applied to the common stock issued in the conversion, and to the extent the fair value of warrants exceeds the carrying value of the debt, a charge to interest expense results for such excess amount.

Revenue Recognition - The Company recognizes revenue at the point the product is shipped to a customer and title has transferred. Revenue from the sale of the Company's products is recognized net of cash discounts, sales returns and allowances. Federal cigarette excise taxes are included in net sales and accounts receivable billed to customers, except on sales of *SPECTRUM* and exported cigarettes in which such taxes do not apply.

The Company was chosen to be a subcontractor for a 5-year government contract between RTI International ("RTI") and the National Institute on Drug Abuse ("NIDA") to supply NIDA research cigarettes. These government research cigarettes are distributed under the mark *SPECTRUM*. The Company has delivered approximately 12 million *SPECTRUM* cigarettes during the years ended December 31, 2012 and 2011. There were no *SPECTRUM* cigarettes delivered during the three months ended March 31, 2013 and 2012. Future revenue under this sub-contract arrangement is expected to be related to the delivery of *SPECTRUM* and will be recognized at the point the product is shipped and title has transferred.

Derivatives - We do not use derivative instruments to hedge exposures to cash flow, market or foreign currency risks. We evaluate all of our financial instruments to determine if such instruments are derivatives or contain features that qualify as embedded derivatives. For derivative financial instruments that are accounted for as liabilities, the derivative instrument is initially recorded at its fair market value and then is revalued at each reporting date, with changes in fair value reported in the consolidated statement of operations. The methodology for valuing our outstanding warrants classified as derivative instruments utilizes a lattice model approach which includes probability weighted estimates of future events including volatility of our common stock. The classification of derivative instruments, including whether such instruments should be recorded as liabilities or equity, is evaluated at the end of each reporting period. Derivative instrument liabilities are classified on the balance sheet as current or non-current based on whether or not net-cash settlement of the derivative instrument could be required within twelve months of the balance sheet date.

Research and Development - Research and development costs are expensed as incurred.

Loss Per Common Share - Basic loss per common share is computed using the weighted-average number of common shares outstanding. Diluted loss per share is computed assuming conversion of all potentially dilutive securities. Potential common shares outstanding are excluded from the computation if their effect is anti-dilutive.

Commitment and Contingency Accounting - The Company evaluates each commitment and/or contingency in accordance with the accounting standards, which state that if the item is more likely than not to become a direct liability, then the Company will record the liability in the financial statements. If not, the Company will disclose any material commitments or contingencies that may arise.

Use of Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of income and expenses during the reporting period. Actual results could differ from those estimates.

Fair Value of Financial Instruments - Financial instruments include cash, receivables, accounts payable, accrued expenses, notes payable, convertible notes payable and warrant liability. Other than warrant liabilities and convertible notes payable, fair value is assumed to approximate carrying values for these financial instruments; since they are short term in nature, they are receivable or payable on demand, or had stated interest rates that approximate the interest rates available to the Company as of the reporting date. The convertible notes payable are recorded at their face amount, net of unamortized discounts for original issue discounts and beneficial conversion features. As of March 31, 2013, the fair value of the convertible notes with a face amount of approximately \$222,600 had an estimated fair value of approximately \$763,000 based on the underlying value of the shares and warrants that the notes can be converted into. Since the underlying shares are trading in an active, observable market, the fair value

measurement qualifies as a Level 1 input and the warrants are measured with Level 3 inputs. The determination of the fair value of the warrant liabilities is disclosed in Note10.

NOTE 2. - LIQUIDITY AND MANAGEMENT'S PLANS

Since 2006, 22nd Century Ltd has incurred substantial operating losses as it transitioned from being only a licensor of its proprietary technology and tobaccos to commercializing its own tobacco products. At March 31, 2013, the Company had current assets of \$1,605,417 and current liabilities of \$1,860,828. Cash on hand at March 31, 2013 of \$278,884 is insufficient to sustain operations for the remainder of 2013 and pay outstanding current liabilities as they become due. The Company is seeking licensees for its technology and products and joint venture partners to fund the remaining X-22 clinical trials.

Goodrich Tobacco continues to explore having its *RED SUN*, *MAGIC* and *SPECTRUM* brands produced by an alternative contract manufacturer that is a participating manufacturer to the Master Settlement Agreement ("MSA") a settlement among 46 states and the tobacco industry administered by the National Association of Attorneys General ("NAAG"). In parallel to these efforts, in January 2013 Goodrich Tobacco applied to the Alcohol and Tobacco Tax Trade Bureau ("TTB") for a federal permit to manufacture its own tobacco products. Being a federally licensed tobacco product manufacturer is a primary requirement of becoming a participating manufacturer of the MSA. On February 26, 2013, Goodrich Tobacco applied to the NAAG to become a participating manufacturer to the MSA. Both of these measures, if approved by the TTB and NAAG, will greatly facilitate the sales and distribution potential of *RED SUN* and *MAGIC* in the U.S. To facilitate Goodrich Tobacco becoming a participating manufacturer of the MSA, sales and marketing of these products have been curtailed, especially in 2012 because the more *RED SUN* and *MAGIC* that is sold while being produced by a non-participating manufacturer, the greater settlement cost Goodrich Tobacco likely has to pay to become a participating manufacturer of the MSA. The Company expects its cigarette factory start-up costs to be approximately \$250,000 and it plans to lease a portion of the machinery required. The costs associated with the MSA settlement are expected to be less than \$40,000.

In January 2013, the Company realized net proceeds of approximately \$2.035 million through the sale of preferred shares and convertible notes with a carrying value at December 31, 2012 of approximately \$1.409 million were converted into common stock and warrants. While these steps significantly improved the Company's financial position, it will need additional financing or one or more licensing arrangements for its technology and products in order to have adequate cash requirements to fund operations and meet its obligations during the remainder of 2013. There can be no assurance that the Company will be able to raise sufficient financing or obtain a significant licensing contract. The financial statements do not include any adjustments that might result from this uncertainty.

NOTE 3. - JANUARY 2013 PREFERRED STOCK PRIVATE PLACEMENT

On January 11, 2013, the Company sold 2,500 shares of newly created Series A-1 10% Convertible Preferred Stock (the "Series A-1 Preferred Stock") and warrants for \$2.5 million. Net proceeds from this issuance were \$2.035 million. On February 4, 2013 the Company filed an S-1 registration statement with the Securities and Exchange Commission ("SEC") and on March 29, 2013, after the Company filed two amendments, the SEC declared the registration statement effective to register up to 6,250,000 common shares issuable upon conversion of Series A-1 Preferred Stock and upon exercise of the Series B warrant.

The shares of Series A-1 Preferred Stock are initially convertible into a total of 4,166,666 shares of the Company's common stock at a conversion price of \$0.60 per share (the "Conversion Price"), subject to future adjustments. The Series A-1 Preferred Stock will pay a 10.0% annual cash dividend, which may be payable in shares of our common stock in certain circumstances, and will have a liquidation preference equal to the stated value of the Series A-1 Preferred Stock of \$1,000 per share plus any accrued and unpaid dividends thereon. The Series A-1 Preferred Stock has no voting rights. The Conversion Price of the Series A-1 Preferred Stock is subject to adjustment as follows:

1. on the effective date of the registration statement, the Conversion Price will be reduced to the lesser of (1) the Conversion Price, as adjusted and taking into consideration any prior resets, (2) the greater of \$0.35 (subject to adjustment for reverse and forward stock splits and the like) and 70% of the average of the five (5) trading day volume weighted average prices, or VWAPs, immediately prior to each such effective date or (3) \$0.60 (subject to adjustment for forward and reverse stock splits and the like). No adjustment to the Conversion Price was triggered upon the effectiveness of the registration statement;

2. if on the 180th day immediately following the closing date of January 11, 2013 (the "Closing Date"), 70% of the average of the five (5) trading day VWAPs immediately prior to such date is less than the Conversion Price, then on such 180th day the Conversion Price shall be reduced, and only reduced, to the lesser of (1) the then Conversion Price, as adjusted and taking into consideration any prior resets, (2) the greater of \$0.15 (subject to adjustment for reverse and forward stock splits and the like) and 70% of the average of the five (5) trading day VWAPs immediately prior to each such 180th day immediately following the Closing Date or (3) \$0.35 (subject to adjustment for forward and reverse stock splits and the like); and

if all of the shares required to be registered are not registered pursuant to an effective registration statement within the 120th day anniversary of the Closing Date, then on the 180th day and 270th day following the Closing date, the Conversion Price shall be reduced, and only reduced, to the lesser of (1) the Conversion Price, as adjusted and 3. taking into consideration any prior resets, (2) the greater of \$0.15 (subject to adjustment for reverse and forward stock splits and the like) and 70% of the average of the five (5) trading day VWAPs immediately prior to each such date or (3) \$0.35 (subject to adjustment for forward and reverse stock splits and the like). The registration statement was declared effective on March 29, 2013, therefore, the Conversion Price will not be subject to this adjustment.

The preferred stockholders do not have mandatory redemption rights, nor does the Company have an

unconditional obligation to issue a variable number of shares. Further, there is a limit on the number of shares that are issuable upon conversion. Accordingly, the Series A-1 Preferred Stock is classified as permanent equity. Based on the fact that the host instrument is more akin to equity, it was further determined that bifurcation of the embedded conversion feature is not required.

We also issued to the Purchasers a Series A warrant (the “Series A Warrant”), a Series B warrant (the “Series B Warrant”), and a Series C warrant (the “Series C Warrant”) (with the Series A Warrant, Series B Warrant and Series C Warrant being collectively referred to herein as the “Warrants”). The Series A Warrant allows the Purchasers the right to acquire, initially before any adjustments to the conversion price, up to an additional 4,166,666 shares of the Company’s common stock at an exercise price of approximately \$0.72 per share over a period of five (5) years. The Series A Warrant also allows for such warrant to be exercised on a cashless basis. The Series B Warrant allows the Purchasers a one-year period to exercise an over-allotment option as contained in the Series B Warrant to purchase, initially before any adjustments to the conversion price, up to an additional aggregate of 2,083,334 shares of the Company’s common stock at a price of \$0.60 per share. The Series B Warrant may not be exercised on a cashless basis except only in certain limited circumstances. In the event the Purchasers exercise, in whole or in part the over-allotment option as contained in the Series B warrant, then the Purchasers shall have the right to exercise on a pro rata basis the portion of the Series C Warrant issued to the Purchasers to acquire, initially before any adjustments to the conversion price, up to an additional aggregate of 2,083,334 shares of the Company’s common stock at an exercise price of approximately \$0.72 per share over a period of five (5) years. The Series C Warrant allows for such warrant to be exercised on a cashless basis.

The warrants have a “down round provision” which results in the warrants being classified and reported as derivative liabilities for accounting purposes and marked to market at each balance sheet date. At the date of the issuance of these warrants, including lock-up warrants, the fair value was estimated to be \$6,022,319, which exceeded the net consideration received in the offering of \$2,034,664, resulting in an immediate charge to other expense – warrant liability change - net in the amount \$3,987,655.

The Series A-1 Preferred Stock contains standard anti-dilution adjustments in the event of a stock dividend, stock split or similar corporate transaction. In addition, if, at any time while shares of Series A-1 Preferred Stock are outstanding, we sell any common stock (or securities issuable into common stock) or grant any option to purchase any common stock at an effective price per share that is lower than the then Conversion Price, which we refer to as a Diluting Issuance, then the Conversion Price shall be reduced to equal the effective price per share (as determined pursuant to the Certificate of Designation) of the Diluting Issuance. No adjustments will be made for shares of common stock or options granted to employees, officers or directors under our Equity Incentive Plan, upon conversion or exchange of any securities outstanding as of the time of the issuance of the Series A-1 Preferred Stock or in connection with certain business combinations. In the event we (i) declare dividends on our common stock, (ii) grant any right to acquire common stock or other property pro rata to all of our holders of our common stock or (iii) enter into a fundamental transaction that provides for consideration to the holders of our common stock, then the Series A-1 Preferred Stock shall have the right to participate on a pro rata as-converted basis without regard to the 9.99% beneficial ownership limitation.

The Company agreed to a covenant in conjunction with the purchase agreement executed in connection with the sale of the Series A-1 Preferred Stock and Warrants to use commercially reasonable efforts to file with the SEC this registration statement, and further be declared effective by the SEC within certain timeframes. The Company successfully met this covenant when its registration statement was declared effective by the SEC on March 29, 2013. Further, following the effective date, if the registration statement ceases to remain continuously effective as to the registrable securities, then the holders of registrable common stock shall be entitled to monetary damages equal to two

percent (2%) of the aggregate purchase price paid by such holder pursuant to the purchase agreement upon the occurrence of one of the foregoing events and for each full month thereafter until the applicable event is cured. This contingency is not considered probable and accordingly no amounts have been accrued.

In connection with the issuance of the Series A-1 Preferred Stock, the Company paid Chardan Capital Markets, LLC a commission equal to (i) ten percent (10%) of the cash received by us and (ii) 416,666 shares of common stock. In the event the Purchasers exercise for cash any of the Warrants, then we will also pay an additional cash commission to Chardan Capital Markets LLC equal to eight percent (8%) (with no additional equity) of any such additional cash amounts received by us. In conjunction with the Series A-1 Preferred Stock private placement, the Company issued 203,167 lock-up warrants to stockholders that participated in previous private placements. These warrants were valued at \$168,402 and are considered liabilities due to a down round provision. This amount was also considered a cost of the Series A-1 Preferred Stock private placement. After deducting fees and expenses, the aggregate net proceeds from the sale of the Series A-1 Preferred Shares and the Warrants were \$2.035 million. The net proceeds were earmarked for the payment of certain financial obligations and for working capital and other general corporate purposes.

As of March 31, 2013, the Company accrued a dividend payable to the preferred shareholders in the amount of \$52,083.

NOTE 4. - MAY and NOVEMBER 2012 PRIVATE PLACEMENT

On May 15, 2012, the Company issued 1,710,833 shares of its common stock and warrants to purchase up to 1,710,833 shares of its common stock for total consideration of \$1,026,500 consisting of the following: \$786,500 in cash, cancellation by a vendor of \$150,000 in accounts payable and the exchange by an employee of his 4% minority interest in Goodrich Tobacco for stock and warrants valued at \$90,000 in the offering. The warrants issued have an original exercise price of \$1.00 per share, a five year term and a “down round provision,” which results in the warrants being classified and reported as derivative liabilities for accounting purposes, and marked to market at each balance sheet date. At the date of issuance of these warrants, the value was estimated to be \$1,841,000 which exceeded the total consideration received in the offering by \$814,500 resulting in an immediate charge to other income and expense - warrant liability - net for this amount. This private placement constituted a “down round” for purposes of all previously issued warrants and the December 14, 2011 Convertible Notes and resulted in adjustments to the exercise price, conversion price and the number of shares issuable upon exercise or conversion of these previously issued securities. Three executive officers of the Company acquired 44,000 shares and warrants for \$26,400 in cash.

On November 9, 2012 the Company issued 3,238,000 shares of its common stock and warrants to purchase up to 1,619,000 shares of its common stock for total consideration of \$809,500 consisting of the following: \$681,000 in cash, cancellation by vendors of \$98,500 in accounts payable, and cancellation of \$30,000 in directors fees owed to two members of the board of directors. The warrants issued have an original exercise price of \$1.00 per share, a five year term and a “down round provision,” which results in the warrants being classified and reported as derivative liabilities for accounting purposes, and marked to market at each balance sheet date. At the date of issuance of these warrants the value was estimated to be \$353,747 which reduced the amount recorded to additional paid in capital. This private placement constituted a “down round” for purposes of all previously issued warrants and the December 14, 2011 Convertible Notes and resulted in adjustments to the exercise price, conversion price and the number of shares issuable upon exercise or conversion of these previously issued securities. Two executive officers of the Company acquired 1,080,000 shares and 540,000 warrants for \$270,000 in cash. Two directors of the Company acquired 120,000 shares and 60,000 warrants in lieu of payment of \$30,000 of director fees.

NOTE 5. - AMOUNTS OWED NORTH CAROLINA STATE UNIVERSITY (“NCSU”)

Pursuant to the terms of an exclusive license agreement with NCSU, the Company owes NCSU approximately \$490,000 as of March 31, 2013 for patent costs and license fees (as compared to \$873,000 owed as of December 31, 2012). These amounts are included in accounts payable and notes payable at March 31, 2013 and accounts payable and accrued liabilities at December 31, 2012 in the consolidated balance sheets. The Company was required to pay these amounts within thirty days of being invoiced and they are past due. NCSU has the right to claim interest on the balance. Management periodically communicates its plans for commercialization of products using the technology licensed from NCSU. As of March 31, 2013, patent costs associated with the exclusive license agreements had a carrying value of approximately \$715,000. Additionally, NCSU has not imposed interest charges on past due amounts invoiced to the Company and as such the Company has not recorded accrued interest or interest expense.

The Company is currently in full compliance with the NCSU license agreement. In January 2013, the Company paid NCSU \$400,000 and issued a note dated February 1, 2013 for \$474,893; the note is unsecured, bears interest at 5% per annum and matures the earlier of October 1, 2013 or the closing of a licensing agreement with up front proceeds of at least \$1.5 million. NCSU also agreed not to invoke any rights to terminate the Company's license agreement for nonpayment or nonperformance, if any, until October 1, 2013.

NOTE 6. - DEMAND BANK LOAN

The demand loan that is among the Company's short term liabilities is payable to a commercial bank under a revolving credit agreement and is guaranteed by an officer of the Company. This loan had a balance of \$174,925 at March 31, 2013 and December 31, 2012. The Company is required to pay interest monthly at an annual rate of 0.75% above the prime rate, or 4.00% at March 31, 2013 and December 31, 2012. The Company is current in meeting this interest payment obligation. The terms of the demand loan include an annual "clean-up" provision, which requires the Company to repay all principal amounts outstanding for a period of 30 consecutive days every year. The Company has not complied with this requirement; however, the bank has not demanded payment. The bank has a lien on all the Company's assets.

NOTE 7. - NOTES PAYABLE

Notes payable consisted of the following as of the dates set forth below:

	March 31, 2013	December 31, 2012
Note dated March 31, 2011	\$-	\$ 77,000
Note dated January 25, 2011	140,000	140,000
Note dated March 13, 2013 and March 30, 2011	175,000	350,000
Note dated March 22, 2012 and April 13, 2012	-	50,000
Note dated January 15, 2013	226,780	-
Note dated January 23, 2013	150,000	-
Note dated January 24, 2013	58,340	-
Note dated February 1, 2013	474,893	-
	1,225,013	617,000
Less long term portion of notes payable	(175,000)	-
Notes Payable (shown in current liabilities)	\$1,050,013	\$ 617,000

Convertible Note Dated March 31, 2011(unsecured) - On March 31, 2011, the Company issued a note to a vendor in the original amount of \$237,000 as satisfaction of past due invoices previously recorded by the Company in accounts payable. The note bears interest at an annual rate of 9%. In December 2011 the note was amended and the principal was reduced by a cash payment of \$50,000 and \$100,000 of the notes was exchanged for \$115,000 of a portion of the Convertible Notes issued December 14, 2011. The Company made a \$10,000 principal payment in May 2012, leaving a remaining balance of \$77,000 as of December 31, 2012. On January 18, 2013 the note was paid in full together with accrued interest.

Note Dated January 25, 2011(unsecured) - On January 25, 2011, the Company issued a note for \$140,000 to a shareholder as satisfaction of the balance due for principal and interest on a matured note that was not paid in cash or converted to common stock of 22nd Century Group and warrants to purchase shares of common stock of 22nd Century Group. The note bears interest at 12% and is due on July 1, 2013 together with accrued interest. As of March 31, 2013 and December 31, 2012, the outstanding principal amount of this note is \$140,000.

Note Dated March 13, 2013 and March 30, 2011(unsecured) - On March 30, 2011, the Company issued a note to a vendor in the amount of \$350,000 as satisfaction of past due invoices previously recorded by the Company in accounts payable. The note bears interest at an annual rate of 4%. Principal and accrued interest were due on July 1, 2012. As of December 31, 2012, the outstanding principal of \$350,000 on this note remained unpaid. In January 2013, the Company repaid \$268,286 of the note principal. The remaining unpaid balance of \$81,714 plus accrued interest of

\$25,582 and outstanding accounts payable of \$67,704 were refinanced into a new unsecured note dated March 13, 2013, which bears interest at 5% and matures on July 1, 2014 or sooner if the Company receives license revenue or financing of at least \$1,500,000 prior to maturity. The outstanding principal on this note was \$175,000 as of March 31, 2013.

Note Dated March 22, 2012 and April 13, 2012 (secured) - On March 22, 2012 and April 13, 2012, the Company issued two notes in the amount of \$25,000 each, originally due on October 1, 2012. The notes were secured by all assets of the Company and its subsidiaries. An officer of the Company is the managing member of the lender. The notes bear interest at an annual rate of 15%. The outstanding principal on this note as of December 31, 2012 was \$50,000. Principal and accrued interest of both notes were paid in full on January 22, 2013.

Note Dated January 13, 2013 (unsecured) - On January 15, 2013, the Company issued a note to a vendor in the amount of \$226,780 as satisfaction of past due invoices previously recorded by the Company in accounts payable and accrued interest. The note bears interest at an annual rate of 8%. The outstanding principal and accrued interest is due on May 3, 2013 or sooner if the Company closes an in-licensing agreement in which the Company or a subsidiary receives an up-front payment of at least \$1 million. The outstanding principal on this note as of March 31, 2013 was \$226,780. Subsequent to March 31, 2013, the Company is in default of this note upon maturity.

Note Dated January 23, 2013 (unsecured) - On January 23, 2013, the Company issued a note to a shareholder and executive officer of the Company. The note bears interest at an annual rate of 15%. The outstanding principal and accrued interest is due on July 1, 2013. The outstanding principal on this note as of March 31, 2013 was \$150,000.

Note Dated January 24, 2013 (unsecured) - On January 24, 2013, the Company issued a note to a former Convertible Note holder in the amount of \$58,340 to discharge \$57,500 in Convertible Notes held by the lender plus accrued interest. The note bears interest at an annual rate of 15%. The outstanding principal and accrued interest is due on July 24, 2013. The outstanding principal on this note as of March 31, 2013 was \$58,340.

Note Dated February 1, 2013 (unsecured) - On February 1, 2013, the Company issued a note to a vendor in the amount of \$474,893 as satisfaction of past due invoices previously recorded by the Company in accounts payable. The note bears interest at an annual rate of 5%. The outstanding principal and accrued interest is due on October 1, 2013 or sooner if the Company closes an in-licensing agreement in which the Company or any affiliate receives an up-front payment of at least \$1.5 million. The outstanding principal on this note as of March 31, 2013 was \$474,893.

NOTE 8. - CONVERTIBLE NOTES

ISSUED DECEMBER 14, 2011

The Company issued convertible notes on December 14, 2011 in a negotiated sale with 24 investors in the total face amount of \$1,926,250 ("Convertible Notes"). The Convertible Notes were sold for \$1,675,000 - an original issue discount of \$251,250. The Convertible Notes do not bear interest and the total face amount is due December 14, 2012. The Convertible Notes can be converted, at the option of each holder, in whole or in part, into shares of the Company's common stock at \$0.75 per share at which time the holder shall also receive warrants equal to 120% of the number of shares of Company common stock into which such Convertible Notes have been then converted. The Company can also force the investors to decide whether to convert by sending a 15-day written notice in which each investor is forced to decide whether to convert or get paid off. Such warrants will have a term of five years and an exercise price of \$1.50 per share of common stock. In the event the Company engages in a subsequent financing transaction of at least \$5,000,000 in shares of Company's common stock with a sale price equal to or greater than \$0.80 per share or debt securities which are convertible into shares of Company common stock with a conversion price equal to or greater than \$0.80 per share of common stock, then the Company will have the right to mandatorily require the conversion of the Convertible Notes. Also, in the event of subsequent financing transaction of at least \$5,000,000, the note holders have "piggyback" registration rights of the common shares and warrants underlying the conversion of the Convertible Notes. The Convertible Notes contain "down round" provisions which provide for adjustments to the conversion price if the Company issues shares of common stock of 22nd Century Group at a price that is less than the exercise price. The conversion feature was not considered to be a derivative because it does not have a net cash settlement provision as a result of the limited market and trading activity for the underlying stock. If the Convertible Notes are converted, the warrants issued at conversion have a "down round provision" and will be classified as derivatives for accounting purposes, and are reported as a liability and marked to market at each balance sheet date.

The Company's common stock closed at \$0.90 per share on December 14, 2011, which is greater than the portion of the conversion price under the Convertible Notes allocated to the underlying common shares. This difference is a beneficial conversion feature (BCF) which was valued at \$1,062,758 at the issue date and recorded as debt discount and additional paid in capital. This BCF was amortized over the one year life of the Convertible Notes.

Three of the Company's executive officers at the time of issuance acquired a portion of the Convertible Notes - with a face value of \$368,000 for cash of \$105,000 and conversion of \$215,000 short term unsecured 12% notes issued by the Company earlier in 2011.

As of December 31, 2012, the OID and BCF discounts were fully amortized, and therefore, no amortization was recorded during the three months ended March 31, 2013. During the three months ended March 31, 2012 \$393,709 of the debt discount was amortized and recorded as interest expense related to the OID and BCF discounts.

During the year ended December 31, 2012, notes with a face amount of \$120,750 (carrying value at time of conversion of approximately \$55,000, net of unamortized discount) were converted into 161,494 shares of common stock and warrants to purchase 193,793 shares of common stock. As a result of the conversion, the unamortized portion of the debt discount amounting to approximately \$66,000 was immediately charged to interest and a derivative warrant liability valued at approximately \$152,000 was recorded. The difference in the warrant value and debt relieved amounting to approximately \$31,000 was also charged to interest expense. Included in note conversions during the year ended December 31, 2012 was a note converted by an officer with a face amount of \$86,250 converted into 115,000 shares of common stock and warrants to purchase 138,000 shares of common stock

At December 31, 2012, Convertible Notes with a total face and carrying value of \$1,805,500 remained outstanding; of this amount \$1,523,750 were extended, by agreement with the note holders, to April 14, 2013 at 15% interest per annum. Two convertible note holders did not execute agreements to extend the notes. In connection with the issuance of the Series A-1 Preferred Stock in January 2013, the Convertible Note holders entered into a lock-up agreements with the Company and received additional warrants (five year term at \$1.50 exercise price) to purchase 219,909 shares of common stock, and have the same rights as the warrants in the original December 2011 convertible note agreement. The lock-up agreement restricts their ability to sell any of the shares received as a result of the conversion of the Convertible Notes.

Of the \$1,805,500 in convertible notes outstanding at December 31, 2012, \$1,408,750 of the convertible notes (together with accrued interest) were converted into 2,035,720 shares of common stock and five-year warrants (which includes lock-up warrants) to purchase 2,662,769 shares of common stock at \$1.50 per share during the period from January 1, 2013 to February 6, 2013. The Company discharged the remaining convertible notes of \$396,750 by payments in cash of \$339,250 and refinancing \$57,500 into a new note maturing July 24, 2013 (see Note 6). Of the notes paid in cash, \$247,250 was held by an executive officer. The executive officer subsequently issued the Company a new promissory note in the amount of \$150,000 and maturing on July 1, 2013 (see Note 6). Of the Convertible Notes issued on December 14, 2011, no amounts remain outstanding as of March 31, 2013.

The warrants issued in conjunction with the note conversions during the three months ended March 31, 2013 were recorded a fair value at the time of issuance amounting to \$1,445,091. Since the warrants are considered a derivative liability, the excess of the fair value of the warrants at the time of issuance above the face amount of the notes converted was immediately recorded as additional interest expense in the amount of \$17,386.

ISSUED AUGUST 9, 2012

The Company issued convertible notes on August 9, 2012 in a negotiated sale with 4 investors in the total face amount of \$222,600. The convertible notes were sold for \$210,000 - an original issue discount (OID) of \$12,600. The convertible notes do not bear interest and the total face amount is due August 9, 2013 together with warrants equal to 50% of the number of shares of Company common stock into which such convertible notes are converted. These warrants were valued at \$92,750 and represent additional debt discount and warrant liability. The convertible notes can be converted, at the option of each holder, in whole or in part, into shares of the Company's common stock at \$0.60 per share at which time the holder shall also receive warrants equal to 100% of the number of shares of Company common stock into which such convertible notes are converted. Additional warrants issued as a result of conversion will be valued and recorded as a warrant liability at that time and will reduce the equity recorded as a result of the conversion. In the event the warrant value exceeds the amount of equity, an immediate charge to other expense will be recorded. The warrants issued upon conversion or maturity will have a term of five years and an exercise price of \$1.00 per share of common stock. The conversion feature was not considered to be a derivative because it does not have a net cash settlement provision as a result of the limited market and trading activity for the underlying stock. The warrants to be issued upon conversion or maturity have a "down round provision" and will be classified as derivatives for accounting purposes, and are reported as a liability and marked to market at each balance sheet date.

The Company's common stock closed at \$0.45 per share on August 9, 2012, which is greater than the portion of the conversion price under the convertible notes allocated to the underlying common shares. This difference is a beneficial conversion feature (BCF) which was valued at \$116,600 at the issue date and recorded as debt discount and additional paid in capital. This BCF is being amortized over the one year life of the convertible notes.

During the three months ended March 31, 2013, \$54,727 of debt discount was amortized and recorded as interest expense related to the OID, warrant and BCF discounts, leaving \$79,569 of unamortized debt discount as of March 31, 2013.

The following table summarizes convertible notes and related discount.

March 31, December 31,

	2013	2012
Face value of all convertible notes payable through maturity	\$ 222,600	\$ 2,028,100
Less unamortized original issue discount	(37,811)	(63,787)
Less unamortized discount related to BCF	(41,758)	(70,509)
Convertible Notes, net of unamortized debt discount	\$ 143,031	\$ 1,893,804
Carrying value of December 14, 2011 convertible notes	\$ -	\$ 1,805,500
Carrying value of August 9, 2012 convertible notes	143,031	88,304
	\$ 143,031	\$ 1,893,804

NOTE 9. - DUE FROM OR TO RELATED PARTY

The Company has conducted transactions with a related party, Alternative Cigarettes, Inc. (“AC”). AC is entirely owned by certain shareholders of the Company, including the CEO. AC shares office space and employee services with the Company. During the year ended December 31, 2011 the Company acquired its *MAGIC* trademark from AC for a purchase price of \$22,500. Other activity during the three months ended March 31, 2013 and the year ended December 31, 2012 consisted mainly of repayments and advances. The net amount due from AC amounted to \$38,469 as of March 31, 2013 (\$36,969 as of December 31, 2012). No interest has been accrued or paid on amount due from or to AC and there are no repayment terms.

NOTE 10. - WARRANTS FOR COMMON STOCK

In connection with the January 25, 2011 Private Placement and Merger, the Company issued five year warrants (“January 25, 2011 Warrants”) to purchase shares of common stock of 22nd Century Group. These warrants contain “down round” provisions which provide for adjustments to the exercise price if the Company issues common shares of stock of 22nd Century Group at a price that is less than the respective warrant exercise prices. This provision is a guarantee of value which requires that these warrants be classified as derivatives for accounting purposes which means they are reported as a liability and marked to market at each balance sheet date. As a result of the equity securities issued during 2012, the “down round provision” of the January 25, 2011 Warrants was triggered and the adjusted warrants outstanding as of December 31, 2012 were 5,482,055 with an exercise price of \$2.73 per share and 3,947,232 with an exercise price of \$1.39 per share. As a result of equity securities issued during the first quarter of 2013, the January 25, 2011 Warrants now amount to 5,615,454 warrants with an exercise price of \$2.67 per share and 4,010,519 warrants with an exercise price of \$1.37 per share outstanding as of March 31, 2013.

During 2012, 193,200 warrants at an original exercise price of \$1.50 were issued upon partial conversion of the December 14, 2011 Convertible Notes, which include “down round provisions” and resulted in a derivative liability upon issuance of approximately \$152,000. Due to subsequent issuance of common stock and instruments convertible into common stock, the number of warrants issuable and exercise price has been adjusted. As of March 31, 2013, warrants issued during 2012 related to partial conversion of December 14, 2011 Convertible Notes now amount to 236,456 warrants outstanding with an exercise price of \$1.23 per share.

Between January 2, 2013 and February 6, 2013 Convertible Notes issued on December 14, 2011 with a carrying value of \$1,408,750 (together with accrued interest) were converted into 2,035,720 shares of common stock and five-year warrants to purchase 2,662,769 shares of common stock at \$1.50 per share. The number of warrants issued upon conversion includes 219,909 lock-up warrants with the same rights as the December 14, 2011 Convertible Notes warrants. These warrants include a “down round provision” and resulted in a derivative liability upon conversion of \$1,445,091. As a result of equity securities issued in 2013, as of March 31, 2013, there are now 2,685,654 warrants outstanding with exercise prices of \$1.34 and \$1.50 per share on 216,674 and 2,468,980 shares, respectively.

In May 2012, the Company issued 1,710,833 five-year warrants to purchase common stock in a private placement with an original exercise price of \$1.00. These warrants contain “down round provisions” and resulted in a derivative liability upon issuance of approximately \$1,841,000. The Company issued 124,217 lock-up warrants to the holders of May 2012 private placement warrants with the same rights as the warrants originally issued. The exercise price of the May 2012 warrants and lock-up warrants was adjusted as a result of subsequent equity securities issued at a lower price than the original exercise price. As of March 31, 2013, 1,847,050 warrants were outstanding with an exercise price of \$.60 per share.

The convertible notes issued in August 2012 require the Company to issue at least 185,500 warrants (\$1.00 per share five year term), which results in a derivative liability upon issuance of the notes of approximately \$92,750.

In November 2012, the Company issued 1,619,000 five-year warrants to purchase common stock in a private placement with an original exercise price of \$1.00. These warrants contain “down round provisions” and resulted in a derivative liability upon issuance of \$353,747. The Company issued 53,950 lock-up warrants to the holders of November 2012 private placement warrants with the same rights as the warrants originally issued. The exercise price of the November 2012 warrants and lock-up warrants was adjusted as a result of subsequent equity securities issued at a lower price than the original exercise price. As of March 31, 2013, 1,672,950 warrants were outstanding with an exercise price of \$.60 per share.

The Company issued 6,250,000 warrants to purchase common stock in the January 2013 Series A-1 Preferred Stock private placement, including 4,166,666 Series A Warrants, which are five-year warrants with an exercise price of \$.72 per share and 2,083,334 Series B Warrants, which are one-year warrants with an exercise price of \$.60 per share. These warrants include “down round provisions” and resulted in a derivative liability upon issuance. The fair value of the Series A Warrants, Series B Warrants and the lock-up warrants issued to the May and November 2012 private placement warrant holders in conjunction with the January 2013 Series A-1 Preferred Stock private placement amounted to \$6,022,319. All of the Series A and B Warrants remained outstanding as of March 31, 2013 at the original exercise price. Further, 2,083,334 Series C Warrants are issuable upon exercise of the Series B Warrants.

The Company estimates the value of warrant liability upon issuance of the warrants and at each balance sheet date using the binomial lattice model to allocate total enterprise value to the warrants and other securities in the Company’s capital structure. Volatility was estimated based on historical observed equity volatilities and implied (forward) or expected volatilities for a sample group of guideline companies and consideration of recent market trends. The following table is a roll-forward of the warrant liability:

Fair value at December 31, 2011	\$550,000
Fair value of warrant liability upon partial conversion of December 14, 2011 Notes	152,100
Fair value of warrant liability upon issuance – May 15, 2012	1,841,000
Fair value of warrant liability related to minimum warrants issuable upon maturity of August 9, 2012 convertible notes	92,750
Fair value of warrant liability upon issuance – November 9, 2012	353,747
Loss as a result of change in fair value	1,183,543
Fair value at December 31, 2012	\$4,173,140
Fair value of warrant liability upon conversion of remaining December 14, 2011 Notes	1,445,091
Fair value of warrant liability upon issuance – January 11, 2013	6,022,319
Gain as a result of change in fair value	(2,971,480)
Fair value at March 31, 2013	\$8,669,070

The aggregate net gain on warrant liability for the three months ended March 31, 2013 amounted to \$2,971,480, which is included in other expenses as part of “warrant liability-net” in the accompanying consolidated statement of operations. The amount for the three months ended March 31, 2013 also includes a charge to other expense as a result of warrant liabilities issued in connection with the Series A-1 Preferred Stock in excess of net proceeds raised in the amount of \$3,987,655. Warrant liabilities issued in connection with the December 14, 2011 Convertible Notes converted to common stock in excess of the conversion amount by \$17,386 was recorded as additional interest expense.

ASC 820 - “Fair Value Measurements and Disclosures” establishes a valuation hierarchy for disclosure of the inputs to valuation used to measure fair value. This hierarchy prioritizes the inputs into three broad levels as follows:

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 inputs are quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument.

Level 3 inputs are unobservable inputs based on the Company’s own assumptions used to measure assets and liabilities at fair value.

A financial asset or liability’s classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement. The warrant liability is measured at fair value using certain estimated factors such as volatility and probability which are classified within Level 3 of the valuation hierarchy. Significant unobservable inputs are used in the fair value measurement of the Company’s derivative warrant liabilities include volatility. Significant increases (decreases) in the volatility input would result in a significantly higher (lower) fair value measurement.

The following table summarizes the warrant activity since December 31, 2011:

Number of Warrants

Warrants outstanding at December 31, 2011	8,668,701
Warrants issued	3,523,033
Additional warrants due to anti-dilution provisions	780,930
Warrants exercised during 2012	-
Warrants outstanding at December 31, 2012	12,972,664
Warrants issued	9,115,940
Additional warrants due to anti-dilution provisions	242,479
Warrants exercised during 2013	-
Warrants outstanding at March 31, 2013	22,331,083

NOTE 11. - RETIREMENT PLAN

The Company sponsors a defined contribution plan under IRC Section 401(k). The plan covers all employees who meet the minimum eligibility requirements. Under the 401(k) plan eligible employees are allowed to make voluntary deferred salary contribution to the plan, subject to statutory limits. The Company has elected to make Safe Harbor Non-elective Contributions to the plan for eligible employees in the amount of three percent (3%) of the employee's compensation. Total employer contributions to the plan, including a contribution made for 2012 in 2013, amounted to \$20,219 and \$0 for the three months ended March 31, 2013 and 2012, respectively.

NOTE 12. - COMMITMENTS

License Agreements - Under its exclusive license agreement with NCSU, the Company is required to pay minimum annual royalty payments, which are credited against running royalties on sales of licensed products. The annual minimum royalty for 2013 is \$75,000 and in 2016 the annual minimum royalty increases to \$225,000. The license agreement continues through the life of the last-to-expire patents, which is expected to be 2022. These annual minimum royalty payments are due each February following the end of the applicable calendar year and are reduced by any running royalties paid or payable for that year. The agreement also requires a milestone payment of \$150,000 upon FDA approval of a product that uses the NCSU licensed technology. The Company is responsible for reimbursing NCSU for actual third-party patent costs incurred. These costs vary from year to year and the Company has certain rights to direct the activities that result in these costs. During the three months ended March 31, 2013, the costs incurred related to the prosecution of patent applications and patent maintenance amounted to \$14,677 (\$6,546 - March 31, 2012).

The Company has two other exclusive license agreements which require aggregate annual license fees of approximately \$65,000, which are credited against running royalties on sales of licensed products. Each license agreement continues through the life of the last-to-expire patents.

The Company entered into a three year lease for office space in Clarence, New York, which commenced September 1, 2011. On January 25, 2013, the Company entered into a two and a half year lease for manufacturing space in Depew, New York, which commenced February 1, 2013. Scheduled rent remaining as of March 31, 2013 is as follows:

2013	\$41,362
2014	\$45,316
2015	\$10,101

NOTE 13. - EARNINGS PER COMMON SHARE

The following table sets forth the computation of basic and diluted earnings per common share:

	March 31, 2013	March 31, 2012
Net loss attributed to common shareholders	\$(2,513,204)	\$(2,122,756)

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Denominator for basic earnings per share-weighted average shares outstanding	36,305,669	28,020,031
Effect of dilutive securities:		
Warrants, restricted stock and options outstanding	-	-
Denominator for diluted earnings per common share - weighted average shares adjusted for dilutive securities	36,305,669	28,020,031
Loss per common share – basic	\$(0.07)	\$(0.08)
Loss per common share- diluted	\$(0.07)	\$(0.08)

Securities outstanding that were excluded from the computation because they would have been anti-dilutive are as follows:

	March 31, 2013	March 31, 2012
Preferred stock	4,166,666	-
Warrants (including Series C Warrant issuable upon exercise of Series B Warrant of 2,083,334)	24,414,416	8,789,979
Convertible debt (including warrants issuable upon conversion of 371,000 at March 31, 2013 and 2,944,000 at March 31, 2012)	742,000	5,397,333
Restricted stock	650,000	700,000
Options	680,000	35,000
	30,653,082	14,922,312

NOTE 14. - STOCK BASED COMPENSATION

On October 21, 2010, the Company established the 2010 Equity Incentive Plan (“EIP”) for officers, employees, directors, consultants and advisors to the Company and its affiliates, consisting of 4,250,000 shares of common stock. The EIP has a term of ten years and is administered by our Board of Directors (“Board”) or a committee to be established by our Board (the “Administrator”), to determine the various types of incentive awards that may be granted to recipients under this plan and the number of shares of common stock to underlie each such award under the EIP. On March 31, 2011, the Company filed a Form S-8 registration statement with the SEC to register all of the shares of common stock of 22nd Century Group that it may issue under the EIP.

For the three months ended March 31, 2013, the Company recorded compensation expense related to stock awards, restricted stock awards and stock options to employees, directors and consultants of \$963,678 (\$59,729 for the three months ended March 31, 2012), which included an award on February 25, 2013 for 890,000 restricted shares to employees and directors that vested immediately and 80,000 shares paid to a third party for services. Both awards were at the closing price on the award date.

As of March 31, 2013, unrecognized compensation expense related to non-vested restricted shares and stock options with vesting terms amounted to approximately \$202,000, which is expected to be recognized approximately as follows: \$111,000 and \$91,000 during 2013 and 2014, respectively. No expense was recorded for restricted stock grants with milestone vesting not considered probable, which had a fair value at grant date of \$51,000.

The weighted average grant date fair value of options issued during the three months ended March 31, 2013 was \$0.68. No options were issued during the three months ended March 31, 2012. The total fair value of options that vested during the three months ended March 31, 2013 amounted to \$145,239 (\$0 – 2012).

The fair value of each option grant is estimated on the date of grant using the Black-Scholes option-pricing model. The following assumptions were used for the three months ended March 31, 2013 and 2012:

	2013	2012
Risk-free interest rate	1.89 %	N/A
Expected dividend yield	0 %	N/A
Expected stock price volatility	90 %	N/A
Expected life of options	10 years	N/A

A summary of all stock option activity since December 31, 2012 is as follows:

	Number of Options	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term	Aggregate Intrinsic Value
Outstanding at December 31, 2012	465,000	\$ 0.69		
Granted in 2013	215,000	\$ 0.80		
Outstanding at March 31, 2013	680,000	\$ 0.73	9.3 years	\$ 115,500
Exercisable at March 31, 2013	610,000	\$ 0.73	9.4 years	\$ 102,200

NOTE 15. - SUBSEQUENT EVENTS

During April 2013, the holders of the Company's Series A-1 Preferred Stock converted 259.08 shares of the Series A-1 Preferred Stock into 431,800 shares of the Company's common stock in a series of conversion transactions. The Series A-1 Preferred Stock was converted using the Conversion Price of \$.60 per share in accordance with the Convertible Preferred Stock issue. There currently remains 2,240.92 shares of Convertible Preferred Stock issued and outstanding that is convertible into 3,734,837 shares of the Company's common stock.

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

Forward-Looking Statements

This Quarterly Report on Form 10-Q contains "forward-looking statements" that reflect, when made, the Company's expectations or beliefs concerning future events that involve risks and uncertainties. Forward-looking statements frequently are identified by the words "believe," "anticipate," "expect," "estimate," "intend," "project," "will be," "will continue," "will likely result," or other similar words and phrases. Similarly, statements herein that describe the Company's objectives, plans or goals also are forward-looking statements. Actual results could differ materially from those projected, implied or anticipated by the Company's forward-looking statements. Some of the factors that could cause actual results to differ include: our ability to close a licensing agreement for our technology and products; our ability to raise capital in order to continue as a going concern; our ability to achieve profitability; our ability to manage our growth effectively; our ability to obtain FDA clearance for our Modified Risk Cigarettes; our ability to obtain FDA approval for our X-22 smoking cessation product; our ability to gain market acceptance for our products and our ability to maintain our rights to our intellectual property licenses. For a discussion of these and all other known risks and uncertainties that could cause actual results to differ from those contained in the forward-looking statements, see "Risk Factors" in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2012, which is available on the SEC's website at www.sec.gov. All forward-looking statements are qualified in their entirety by this cautionary statement, and the Company undertakes no obligation to revise or update this Quarterly Report on Form 10-Q to reflect events or circumstances after the date hereof.

For purposes of this Management's Discussion and Analysis of Financial Condition and Results of Operations, references to the "Company," "we," "us" or "our" refer to the operations of 22nd Century Group, Inc. and its direct and indirect subsidiaries for the periods described herein.

Overview

22nd Century Limited, LLC ("22nd Century Ltd"), our wholly-owned subsidiary, is a plant biotechnology company focused on tobacco harm reduction products and smoking cessation products produced from modifying the nicotine content in tobacco plants through genetic engineering and plant breeding. The Company owns or exclusively controls 109 issued patents and an additional 39 patent applications. Goodrich Tobacco Company, LLC ("Goodrich Tobacco") and Hercules Pharmaceuticals, LLC ("Hercules Pharmaceuticals") are subsidiaries of 22nd Century Ltd. Goodrich Tobacco is focused on commercial tobacco products and potential modified risk cigarettes. Hercules Pharmaceuticals is focused on X-22, a prescription smoking cessation aid currently in development.

The Company is primarily involved in the following activities:

- The worldwide licensing of 22nd Century Ltd's technology, proprietary tobaccos, trademarks and brands;
 - The development of its potential modified risk tobacco products;
 - The development of its X-22 prescription smoking cessation aid;
- The pursuit of necessary regulatory approvals and clearances at the U.S. Food and Drug Administration (the "FDA") to market X-22 as a prescription smoking cessation aid and *BRAND A* and *BRAND B* as Modified Risk Cigarettes in the U.S.;
- The manufacture, marketing and distribution of *RED SUN* and *MAGIC* proprietary cigarettes; and
- The production of *SPECTRUM* research cigarettes for the National Institute on Drug Abuse ("NIDA").

We have operated at a loss since 2006 when we increased our research and development expenditures. We are in the process of transitioning from solely developing proprietary technology and tobacco to developing and commercializing our own technology and products. Our prospects depend on our ability to generate and sustain revenues from (i) the international licensing our technology and products; and (ii) domestic and international sales of *RED SUN* and *MAGIC*, our X-22 smoking cessation aid, our potential modified risk tobacco products, and our proprietary tobaccos. Our ability to generate meaningful revenue from our potential modified risk tobacco products in the United States depends on obtaining FDA authorization to market these products as modified risk, and our ability to generate meaningful revenue in the United States from X-22 depends on FDA approval. If these products are approved and authorized by the FDA, we must still meet the challenges of successful marketing and distribution and consumer acceptance.

Licensing

The Company has been in discussions with various parties in the tobacco and pharmaceutical industries for licensing its technology and products since the first quarter of 2012. Management is exploring licensing arrangements on a country-by-country basis in the U.S., Europe and Asia. The Company expects to close at least one licensing agreement for its technology and products before the end of the third quarter of 2013.

Potential Modified Risk Cigarettes and the Tobacco Control Act

The 2009 Family Smoking Prevention and Tobacco Control Act (“Tobacco Control Act”) granted the FDA authority over the regulation of all tobacco products. While it prohibits the FDA from banning cigarettes outright, it allows the FDA to require the reduction of nicotine or any other compound in tobacco and cigarette smoke. The Tobacco Control Act also banned all sales in the U.S. of cigarettes with characterizing flavors (other than menthol). As of June 2010, all cigarette companies were required to cease the use of the terms “low tar,” “light” and “ultra light” in describing cigarettes sold in the U.S. Besides numerous other regulations, including certain marketing restrictions, for the first time in history, a U.S. regulatory agency will scientifically evaluate cigarettes that may pose lower health risks as compared to conventional cigarettes.

The Tobacco Control Act establishes procedures for the FDA to regulate the labeling and marketing of modified risk tobacco products, which includes cigarettes that (i) reduce exposure to tobacco toxins and (ii) are reasonably likely to pose lower health risks as compared to conventional cigarettes (“Modified Risk Cigarettes”). The Tobacco Control Act requires the FDA to issue specific regulations or guidance regarding applications that must be submitted to the FDA for the authorization to label and market Modified Risk Cigarettes. On March 30, 2012, the FDA issued *Modified Risk Tobacco Product Applications Draft Guidance*. We believe that two types of our cigarettes in development which we refer to as *BRAND A* and *BRAND B*, may qualify as Modified Risk Cigarettes. Compared to commercial cigarettes, the tobacco in *BRAND A* has approximately 95% less nicotine than tobacco in cigarettes previously marketed as “light” cigarettes, and *BRAND B*’s smoke contains an extraordinary low amount of “tar” per milligram of nicotine.

Goodrich Tobacco intends to seek FDA authorization to market *BRAND A* and *BRAND B* as Modified Risk Cigarettes and expects to file applications with the FDA in 2013, the exact timing will depend on the timing of obtaining additional capital. After filing our modified risk applications with the FDA, we will need significant additional capital to complete the FDA authorization process for our Modified Risk Cigarettes. The exact amount of capital is currently unknown since it is uncertain how many exposure studies the FDA will require for *BRAND A* and *BRAND B*. However, we estimate that the cost of completing the FDA authorization process for each of our potential Modified Risk Cigarettes to be at least \$2 million. We believe that *BRAND A* and *BRAND B* will achieve market share in the global cigarette market among smokers who will not quit but are interested in reducing the harmful effects of smoking. There is no guarantee that we will (i) obtain additional capital to complete the FDA authorization process for our potential Modified Risk Cigarettes, (ii) obtain FDA authorization to market *BRAND A* or *BRAND B* as Modified

Risk Cigarettes, or (iii) achieve significant market with FDA authorization to market our products as Modified Risk Cigarettes.

X-22

The *X-22* therapy protocol utilized in the Company's sponsored Phase II-B clinical trial calls for the patient to smoke our very low nicotine ("VLN") cigarettes over a six-week treatment period to facilitate the goal of the patient quitting smoking by the end of the treatment period. We believe this therapy protocol has been successful in independent clinical trials because VLN cigarettes made from our proprietary tobacco satisfy smokers' cravings for cigarettes while (i) greatly reducing nicotine exposure and nicotine dependence and (ii) extinguishing the association between the act of smoking and the rapid delivery of nicotine. *X-22* involves the same smoking behavior as conventional cigarettes and because patients are simply switching to VLN cigarettes for 6 weeks, *X-22* does not expose the smoker to any new drugs or new side effects. Our Investigational New Drug Application for *X-22*, a kit of VLN cigarettes, was cleared by the FDA in July 2011. Our *X-22* Phase II-B clinical trial was completed in the first quarter of 2012 and did not demonstrate a statistically significant difference in quitting between *X-22* and the active control, a cigarette containing conventional nicotine levels. However, the median number of *X-22* cigarettes smoked during the trial was significantly reduced compared to patients' baseline of usual brand of cigarettes. In evaluating the results of this trial, we believe we may have reduced the nicotine content of *X-22* by too great a percentage, to a level less than half the nicotine content of VLN cigarettes used in various independent smoking-cessation clinical trials that have demonstrated that use of VLN cigarettes increases quit rates.

In contrast to the results of the Company's Phase II-B trial results, independent studies have demonstrated that VLN cigarettes, whether used alone or in conjunction with nicotine replacement therapy (NRT), increase quitting rates. Due to the limited effectiveness and/or serious side effects of existing FDA-approved smoking cessation products, we believe that if additional clinical trials demonstrate increased smoking cessation rates, X-22 can capture a share of this market by replacing sales and market share from existing smoking cessation aids and expanding the smoking cessation market by encouraging more smokers to attempt to quit smoking. We are currently in the process of identifying potential joint venture partners to fund the remaining X-22 clinical trials. We estimate the cost of completing the remaining X-22 clinical trials to be approximately \$14 million and the marketing expenses to bring X-22 to market in the U.S. are estimated to be approximately \$5 million. There is no guarantee that we will (i) obtain the funds necessary to complete additional clinical trials, (ii) identify potential joint venture partners to fund the remaining X-22 clinical trials, (iii) obtain FDA approval, or (iv) capture significant share of the smoking cessation market upon FDA approval.

We continue to believe that our VLN cigarettes are effective as a smoking cessation aid. However, we have suspended sponsoring further X-22 clinical trials pending a complete analysis of results of two independent smoking-cessation trials that were completed in 2012 (ClinicalTrials.gov Identifiers NCT01050569 and NCT01250301), which utilized a different version of our VLN cigarette with a nicotine content similar to those used in previous successful smoking-cessation trials and higher than that used in our own sponsored Phase II-B trial. A portion of the results of these two trials has been disclosed at the annual meeting of the Society for Research on Nicotine and Tobacco ("SRNT") held in Boston on March 13 to 16, 2013.

Regarding the NCT01050569 clinical trial, results only in terms of gender differences in abstinence rates were disclosed at the SRNT annual meeting. Dorothy Hatsukami, PhD, was principal investigator of the study. Treatment consisted of 6 weeks use of a VLN cigarette, a 21mg nicotine patch, or a combination of the patch and the VLN cigarette, followed by an additional 6 weeks of behavioral treatment. Within the female population at the end of treatment (week 12), the group assigned our VLN cigarette had the highest continuous abstinence rate; the group assigned concurrent use of our VLN cigarette with a 21mg nicotine patch had the next highest continuous abstinence rate followed by the group assigned a 21mg nicotine patch. Within the male population at the end of treatment (week 12), the group assigned a 21mg nicotine patch had the highest continuous abstinence rate; the group assigned concurrent use of our VLN cigarette with a 21mg nicotine patch had the next highest continuous abstinence rate followed by the group assigned our VLN cigarette.

Regarding the NCT01250301 clinical trial, certain results were disclosed in a presentation at the SRNT annual meeting given by Hayden McRobbie, Ph.D. of Queen Mary University of London, Wolfson Institute of Preventative Medicine, who was the principal investigator of the study. Pfizer Inc. was also a collaborator of the study. This clinical trial evaluated whether the use of our VLN cigarette in combination with Chantix® or in combination with nicotine replacement therapy ("NRT") increases abstinence rates over the use of Chantix® or the use of NRT. The study included one hundred smokers who were prescribed varenicline (trademarked Chantix, or Champix outside the U.S.) and one hundred smokers who were prescribed NRT. Half the smokers of each of these groups were randomly selected to also use our VLN cigarettes for the first 2 weeks of treatment. All smokers received 9 weekly behavioral support sessions throughout the 12-week study period. The group that used our VLN cigarettes had a 70% quit rate one week after stopping VLN cigarette use compared to a 53% quit rate of the group not using VLN cigarettes after

week 1 ($p=0.02$). The group that used our VLN cigarettes had a 64% four-week continuous abstinence rate during weeks 3 to 6 compared to a 50% four-week continuous abstinence rate during weeks 1 to 4 ($p=0.06$). Quit rates at 12 weeks post treatment were not reported in the presentation.

The full set of results of these 2 independent clinical trials are expected to be published in peer reviewed journals and will be compared to results of other independent clinical trials of our VLN cigarettes and results of our Phase II-B trial to determine which variables optimize cessation. One preliminary hypothesis, in conjunction with results of various other studies of our VLN cigarettes, is that having two types of prescription VLN cigarettes available may be advantageous for increased smoking cessation in the general population; one having a higher nicotine content than the other. Upon identifying a suitable joint venture partner to fund further X-22 clinical trials, we will then request a meeting with the FDA, and thereafter we may resume our own sponsored X-22 clinical trials.

RED SUN and MAGIC Cigarettes

Goodrich Tobacco has thus far had its cigarette brands contract manufactured by a non-participating manufacturer to the “Master Settlement Agreement” or “MSA,” a settlement among 46 states and the tobacco industry administered by the National Association of Attorneys General (“NAAG”). Our subsidiary, Goodrich Tobacco, introduced in a limited capacity two super-premium priced cigarette brands, *RED SUN* and *MAGIC*, into the U.S. market in the first quarter 2011. There have been *de minimis* sales of these brands in 2011 and 2012 since we intentionally have not expanded marketing and distribution of these brands to facilitate Goodrich Tobacco becoming a participating manufacturer of the MSA. The more *RED SUN* and *MAGIC* sold while these brands are produced by a non-participating manufacturer, the greater the settlement costs Goodrich Tobacco likely has to pay to become a participating manufacturer of the MSA. On January 23, 2013, Goodrich Tobacco applied to the Alcohol and Tobacco Tax Trade Bureau (“TTB”) for a federal permit to manufacture its own tobacco products. Being a federally licensed tobacco product manufacturer is a primary requirement of becoming a participating manufacturer of the MSA. On February 26, 2013, Goodrich Tobacco applied to the NAAG to become a participating manufacturer to the MSA. Both of these measures, if approved by the TTB and NAAG, will greatly facilitate the sales and distribution potential of *RED SUN* and *MAGIC*. Goodrich Tobacco expects its cigarette factory startup costs to be approximately \$250,000 and plans to lease a portion of the machinery required. The costs associated with the MSA settlement are expected to be less than \$40,000.

SPECTRUM Research Cigarettes

As a subcontractor to RTI International (“RTI”) in RTI’s contract with The National Institute on Drug Abuse (“NIDA”) for the Research Cigarette Option, we supply modified nicotine (from very low to high) cigarettes to NIDA. These research cigarettes are distributed under the mark *SPECTRUM*. The Company has delivered approximately 12 million *SPECTRUM* cigarettes over the last two years and expects to receive additional orders for *SPECTRUM*.

Private Placement of Preferred Stock and Warrants

On January 11, 2013, we entered into and closed the transactions described in a Securities Purchase Agreement with certain accredited investors identified therein (collectively, the “Purchasers”), whereby we sold 2,500 shares of newly created Series A-1 10% Convertible Preferred Stock (the “Series A-1 Preferred Stock”) and Warrants (as defined below) for an aggregate purchase price of \$2,500,000. The Company realized net proceeds of \$2.035 million. We also entered into a Registration Rights Agreement whereby we agreed to file a registration statement to register the resale of the shares of our common stock that are potentially issuable under each of the securities described below.

The shares of Series A-1 Preferred Stock are initially convertible into a total of 4,166,666 shares of the Company’s common stock at a conversion price of \$0.60 per share (the “Conversion Price”), subject to future adjustments based on

the market value of our common stock during prescribed periods and upon certain events. The Series A-1 Preferred Stock will pay a 10.0% annual cash dividend, which may be payable in shares of our common stock in certain circumstances, and will have a liquidation preference equal to the stated value of the Series A-1 Preferred Stock of \$1,000 per share plus any accrued and unpaid dividends thereon. The Series A-1 Preferred Stock has no voting rights.

The Series A-1 Preferred Stock has been issued subject to certain negative covenants, which are restrictions on the Company that will remain in effect for as long as any shares of Series A-1 Preferred Stock are outstanding, unless the holders of at least 67% in stated value of the then outstanding shares of Series A-1 Preferred Stock have otherwise given prior written consent.

We also issued to the Purchasers a Series A warrant (the "Series A Warrant"), a Series B warrant (the "Series B Warrant"), and a Series C warrant (the "Series C Warrant") (with the Series A Warrant, Series B Warrant and Series C Warrant being collectively referred to herein as the "Warrants"). The Series A Warrant allows the Purchasers the right to acquire, initially before any adjustments to the conversion price, up to an additional 4,166,666 shares of the Company's common stock at an exercise price of approximately \$0.72 per share over a period of five (5) years. The Series A Warrant also allows for such warrant to be exercised on a cashless basis. The Series B Warrant allows the Purchasers a one-year period to exercise an over-allotment option as contained in the Series B Warrant to purchase, initially before any adjustments to the conversion price, up to an additional aggregate of 2,083,334 shares of the Company's common stock at a price of \$0.60 per share. The Series B Warrant may not be exercised on a cashless basis except only in certain limited circumstances. In the event the Purchasers exercise, in whole or in part the over-allotment option as contained in the Series B warrant, then the Purchasers shall have the right to exercise on a pro rata basis the portion of the Series C Warrant issued to the Purchasers to acquire, initially before any adjustments to the conversion price, up to an additional aggregate of 2,083,334 shares of the Company's common stock at an exercise price of approximately \$0.72 per share over a period of five (5) years. The Series C Warrant allows for such warrant to be exercised on a cashless basis.

The Series A-1 Preferred Stock and the Warrants contain exercise and conversion limitations providing that a holder thereof may not convert or exercise (as the case may be) to the extent that, if after giving effect to such conversion or exercise (as the case may be), the holder or any of its affiliates would beneficially own in excess of 9.99% of the outstanding shares of common stock immediately after giving effect to such conversion or exercise (as the case may be).

Annual Report on Form 10-K

Our Annual Report on Form 10-K for the fiscal year ended December 31, 2012 provides additional information about our business, operations and financial condition.

Three Months Ended March 31, 2013 Compared to Three Months Ended March 31, 2012

Revenue.

We had no revenue in the three months ended March 31, 2013 and 2012.

Research and development expense.

Research and development (R&D) expense was \$190,748 in the three months ended March 31, 2013, an increase of \$103,014, or 117%, from \$87,734 in the three months ended March 31, 2012. This increase was primarily a result of stock based compensation during the first quarter of 2013 as compared to the first quarter of 2012.

General and administrative expense.

General and administrative expense was \$1,148,132 in the three months ended March 31, 2013, an increase of \$838,342, or 271%, from \$309,790 in three months ended March 31, 2012. The increase was mainly due to an increase in stock based compensation and professional fees related to the timing of the annual audit and nonrecurring SEC filings during the first quarter of 2013 as compared the first quarter of 2012.

Sales and marketing costs.

Sales and marketing costs were \$0 in the three months ended March 31, 2013, a decrease of \$3,834, or 100%, from \$3,834 in three months ended March 31, 2012. We do not intend to incur any significant sales and marketing costs

until the successful national distribution of our products in the U.S.

Amortization and depreciation expense.

Amortization and depreciation expense relates almost entirely to capitalized patent and trademark costs. Amortization and depreciation expense increased 14.5% in the three months ended March 31, 2013 to \$52,624, up from \$45,958 in the three months ended March 31, 2012. This increase of \$6,666 is mainly due to our additional investment in patents and trademarks during 2012 of \$162,774.

Loss warrant liability – derivative.

In a private placement in the first quarter of 2013, we issued warrants which were accounted for as derivatives and upon issuance a liability at the estimated fair value was recorded. At the date of issuance of these warrants the value exceeded the total consideration received by an aggregate of \$3,987,655 resulting in an immediate charge to expense for this amount. This charge was offset by an aggregate net gain on warrant liability of \$2,971,480 resulting from the decrease in the estimated fair value during the first quarter of 2013 of all warrants we have issued. The loss of \$1,243,000 for the first quarter of 2012 represents the increase in the estimated fair value of the warrants during this period. Future quarters will reflect a gain or loss based on the change in the fair value of the derivatives, which is based on a number of factors including the Company's stock price.

Interest expense and amortization of debt discount and expense.

Interest expense and amortization of debt discount and debt issuance costs decreased in the three months ended March 31, 2013 to \$105,525 from \$433,896 in the three months ended March 31, 2012. This decrease of \$328,371 or 75.7% was primarily the result of a decrease in the amortization of debt discount and debt issuance costs related to Convertible Notes issued on December 14, 2011, which were fully amortized in December 2012. Amortization of debt discount during the first quarter of 2013 pertains only to the Convertible Notes issued on August 9, 2012.

Net loss.

We had a net loss in the three months ended March 31, 2013 of \$2,513,204 as compared to a net loss of \$2,124,212 in the three months ended March 31, 2012. The increase in the net loss of \$388,992, or 18.3%, was mainly a result of increases in stock based compensation and professional fees partially offset by decreases in the loss related to the warrant liability and interest expense and amortization of debt discount and expense.

Liquidity and Capital Resources

Summary of Balances and Recent Sources and Uses

As of March 31, 2013, we had negative working capital of approximately \$.26 million compared to negative working capital of approximately \$3.32 million at December 31, 2012. The \$3.06 million decrease in our negative working capital position was mainly a result of the net proceeds received in the preferred stock private placement used to satisfy certain financial obligations and the conversion to common stock of the remaining convertible notes from the December 14, 2011 issue.

Cash demands on operations

Since January 1, 2011 we operated at a loss and operating activities consumed more than \$6.35 million in cash. Cash on hand at March 31, 2013 of \$278,884 is insufficient to fund operations and meet our obligations as they come due. The Company has suspended clinical trials for X-22 and is seeking licensing agreements for its products with both domestic and international businesses. At March 31, 2013, the Company had current assets of \$1,605,417 and current liabilities of \$1,860,828.

On January 11, 2013, the Company closed a private placement and realized net proceeds of \$2.035 million. From January 1, 2013 through February 6, 2013, the Convertible Notes with a carrying value at December 31, 2012 of approximately \$1.41 million were converted into common stock and warrants. While both these steps significantly improved the Company's financial position; we will need additional capital or one or more licensing arrangements for our technology and products in order to meet cash requirements to fund operations and meet our obligations during the next 12 months. Excluding contract growing of our proprietary tobacco with farmers and extraordinary expenses, such as clinical trials and factory setup costs, our monthly cash expenditures are approximately \$100,000. In the event the Company does not enter into an out-licensing agreement with a third party, approximately \$2.5 million of additional capital is required through the next 12-month period, which includes paying approximately \$1 million of obligations that will become due. The Company expects its cigarette factory startup costs to require an additional \$250,000 of capital. It plans to lease a portion of the machinery required. There can be no assurance that the Company will be able to raise sufficient capital or obtain a licensing agreement.

Other than the R&D agreement at UVA, the Company has no other substantial third-party R&D commitments requiring funding. The Company may carry out a minimal amount of R&D in 2013, not to exceed \$100,000, for additional field trials of plants from our seed lots that resulted from our R&D at NCSU, NRC, NAIST and UVA. Upon the required funding, we expect to carry out exposure studies for our Modified Risk cigarette candidates and will carry out additional clinical trials for X-22 if Hercules Pharmaceuticals, our subsidiary, identifies a joint venture

partner willing to fund these trials.

The ability to complete additional equity or debt financings on acceptable terms will depend on a number of factors, including the general performance of the capital markets, the Company's progress in the manufacture, distribution and sale of its products, licensing of its technology, products and tobacco, and results on independent smoking cessation clinical trials utilizing the Company's products. In addition, our ability to complete additional debt and equity financings is limited by covenants related to our Series A-1 Preferred Stock, unless we issue securities to an entity in a business synergistic to ours. Failure to license the Company's technology, products and tobacco or to raise sufficient capital would significantly increase the risk that we would be unable to continue operations. To the extent that we raise additional funds through collaboration and licensing arrangements, it may be necessary to relinquish some rights to our technology, tobacco or products or grant licenses on terms that are not favorable to us.

Net Cash used in Operating Activities.

In the first three months of 2013, \$1,137,122 of cash was used in operating activities compared to \$276,229 of cash used in operating activities in the first three months of 2012. This increase in use of cash in operations of \$860,893 was partially due to the increase in the cash portion of the net loss in the first three months of 2013 as compared to the first three months of 2012 of \$45,475. The balance of the increase in use of cash in operations was a result of \$815,418 more cash used for working capital components related to operations.

Net Cash used in Investing Activities.

In the first three months of 2013, we used \$14,620 of cash related to third party costs incurred for patents and trademarks as compared to \$500 used in the first three months of 2012. In addition, costs of \$13,985 were incurred for the acquisition of office furniture and fixtures as compared to \$0 for the three months ended March 31, 2012.

Net Cash from Financing Activities.

During the first three months of 2013, we generated approximately \$1,444,000 from our financing activities mainly as a result of net cash proceeds received from the preferred stock issue in the amount of \$2.035 million and proceeds received from the issuance of notes payable in the amount of \$150,000. These proceeds raised were partially offset by payments on notes payable, convertible notes payable and net payments to related parties and officers in the amount of \$395,286, \$339,250 and \$5,705, respectively. During the first three months of 2012, we generated net cash of approximately \$25,000 mainly as a result of a short term unsecured note borrowing.

The Company will need to raise additional capital to continue operations and make payments on obligations that are and become due in 2013. The ability to complete these financings on acceptable terms will depend on a number of factors, including the general performance of the capital markets, the Company's progress in the manufacture, distribution and sale of its products, and results on independent smoking cessation clinical trials. Failure to raise sufficient funds would significantly increase the risk that we would be unable to continue operations. Financing may not be available on acceptable terms, or at all, and our failure to raise capital when needed could materially adversely impact our plans to commercialize our products, our ability to continue as a going concern and our financial condition and results of operations. These equity financings will be dilutive to our existing shareholders' respective ownership.

Critical Accounting Policies and Estimates

Accounting principles generally accepted in the United States of America, or U.S. GAAP, require estimates and assumptions to be made that affect the reported amounts in our consolidated financial statements and accompanying notes. Some of these estimates require difficult, subjective and/or complex judgments about matters that are inherently uncertain and, as a result, actual results could differ from those estimates. Due to the estimation processes involved, the following summarized accounting policies and their application are considered to be critical to understanding our business operations, financial condition and results of operations.

Revenue Recognition

The Company recognizes revenue at the point the product is shipped to a customer and title has transferred. Revenue from the sale of the Company's products is recognized net of cash discounts, sales returns and allowances. Federal cigarette excise taxes are included in net sales and accounts receivable billed to customers, except on sales of *SPECTRUM* and exported cigarettes in which such taxes do not apply.

The Company was chosen to be a subcontractor for a 5-year government contract between RTI International ("RTI") and the National Institute on Drug Abuse ("NIDA") to supply NIDA research cigarettes. These government research cigarettes are distributed under the mark *SPECTRUM*. The Company has delivered approximately 12 million *SPECTRUM* cigarettes during the years ended December 31, 2012 and 2011. There were no *SPECTRUM* cigarettes delivered during the three months ended March 31, 2013 and 2012. Future revenue under this sub-contract arrangement is expected to be related to the delivery of *SPECTRUM* and will be recognized at the point the product is shipped and title has transferred.

Impairment of Long-Lived Assets

We review the carrying value of amortizing long-lived assets whenever events or changes in circumstances indicate that the historical cost-carrying value of an asset may no longer be appropriate. We also assess recoverability of the asset by estimating the future undiscounted net cash flows expected to result from the asset, including eventual disposition. If the estimated future undiscounted net cash flows are less than the carrying value of the asset, an impairment loss is recorded equal to the difference between the asset's carrying value and its fair value. We have not recognized any impairment losses during the year ended December 31, 2012 or the three months ended March 31, 2013.

Amortization Estimates of Intangible Assets

We generally determine amortization based on the estimated useful lives of the assets and record amortization expense on a straight-line method over such lives. The remaining life of the patent is generally used to determine the estimated useful life of the related patent costs.

Valuation of our Equity Securities

The Company uses a fair-value based method to determine compensation for all arrangements under which Company employees and others receive shares, options or warrants to purchase common shares of 22nd Century Group. Stock based compensation expense is recorded over the requisite service period based on estimates of probability and time of achieving milestones and vesting. For accounting purposes, the shares will be considered issued and outstanding upon vesting.

Convertible Debt

When the convertible feature of the conventional convertible debt is issued, the embedded conversion feature is evaluated to determine if bifurcation and derivative treatment is required whether there is a beneficial conversion feature. When the convertible debt provides for an effective rate of conversion that is below market value, this feature is characterized as a beneficial conversion feature ("BCF"). Prior to the determination of the BCF, the proceeds from the debt instrument were first allocated between the convertible debt and any embedded or detachable free standing instruments that are included, such as common stock and warrants. We record a BCF as a debt discount pursuant to FASB ASC Topic 470-20, "Debt with Conversion and Other Options". In those circumstances, the convertible debt will be recorded net of the discount related to the BCF. We amortize the discount to interest expense over the life of the debt.

For the convertible notes issued December 2011 and August 2012, we recorded the OID and the BCF related to these convertible notes as a debt discount and recorded the convertible notes net of the discount related to both the OID and the BCF. Debt discount is amortized to interest expense over the life of the debt.

Preferred Stock

The shares of Series A-1 Preferred Stock are initially convertible into shares of the Company's common stock at a conversion price of \$0.60 per share (the "Conversion Price"), subject to future adjustments. The Series A-1 Preferred Stock will pay a 10.0% annual cash dividend, which may be payable in shares of our common stock in certain circumstances, and will have a liquidation preference equal to the stated value of the Series A-1 Preferred Stock of \$1,000 per share plus any accrued and unpaid dividends thereon. The Series A-1 Preferred Stock has no voting rights. The Conversion Price of the Series A-1 Preferred Stock is subject to adjustment.

The preferred stockholders do not have mandatory redemption rights, nor does the Company have an unconditional obligation to issue a variable number of shares. Further, there is a limit on the number of shares that are issuable upon conversion. Accordingly, the Series A-1 Preferred Stock is classified as permanent equity. Based on the fact that the host instrument is more akin to equity, it was further determined that bifurcation of the embedded conversion feature is not required.

Income taxes

The Company is required to recognize deferred tax assets and liabilities for any basis differences in its assets and liabilities between tax and GAAP reporting, and for operating loss and credit carry-forwards. In light of the Company's history of cumulative losses, management has determined that it is more likely than not that its net deferred tax asset will not be realized. Accordingly, the Company established a valuation allowance to fully offset its net deferred tax asset as of March 31, 2013 and December 31, 2012.

Derivative Financial Instruments

We do not use derivative instruments to hedge exposures to cash flow, market or foreign currency risks. We evaluate all of our financial instruments to determine if such instruments are derivatives or contain features that qualify as embedded derivatives. For derivative financial instruments that are accounted for as liabilities, the derivative instrument is initially recorded at its fair market value and then is revalued at each reporting date, with changes in fair value reported in the consolidated statement of operations. The methodology for valuing our outstanding warrants classified as derivative instruments utilizes a lattice model approach which includes probability weighted estimates of future events including volatility of our common stock. A financial asset or liability's classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement. The warrant liability is measured at fair value using certain estimated factors such as volatility and probability which are classified within Level 3 of the valuation hierarchy. Significant unobservable inputs are used in the fair value measurement of the Company's derivative warrant liabilities include volatility. Significant increases (decreases) in the volatility input would result in a significantly higher (lower) fair value measurement. A 10% increase or decrease in the volatility factor used as of March 31, 2013 would have the impact of increasing or decreasing the liability by approximately \$2 million.

The classification of derivative instruments, including whether such instruments should be recorded as liabilities or equity, is evaluated at the end of each reporting period. Derivative instrument liabilities are classified in the balance sheet as current or non-current based on whether or not net-cash settlement of the derivative instrument could be required within twelve months of the balance sheet date.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements as defined by Item 303(a)(4) of Regulation S-K.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

As a smaller reporting company, we are not required to present this information.

Item 4. Controls and Procedures

(a) Evaluation of Disclosure Controls and Procedures:

The Company maintains disclosure controls and procedures that are designed to ensure that information required to be disclosed in its Exchange Act reports is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to the Company's management, including the Company's chief executive officer and chief financial officer, as appropriate, to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures.

Our chief executive officer and chief financial officer, after evaluating the effectiveness of the Company's "disclosure controls and procedures" (as defined in the Securities Exchange Act of 1934 (Exchange Act) Rules 13a-15(e) or 15d-15(e)) as of the end of the period covered by this quarterly report, have concluded that our disclosure controls and procedures were not effective and that material weaknesses described in our Form 10-K for the fiscal year ended December 31, 2012 exist in our internal control over financial reporting based on this evaluation of these controls and procedures as required by paragraph (b) of Exchange Act Rules 13a-15 or 15d-15.

(b) Changes in Internal Control over Financial Reporting:

There were no changes in the Company's internal control over financial reporting during the first quarter of 2013 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Part II. OTHER INFORMATION

Item 1. Legal Proceedings

Neither 22nd Century Group nor its subsidiary are involved in any material legal proceeding.

Item 1A. Risk Factors

Our risk factors have not changed materially from those disclosed in our annual report on Form 10-K for the year ended December 31, 2012 filed on March 18, 2013.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

On May 7, 2013, the Company issued an aggregate of one hundred sixty thousand (160,000) shares of common stock, par value \$0.00001 per share, of the Company pursuant to an Agreement between the Company and New Castle Consulting, LLC ("New Castle") for consulting services provided by New Castle. This sale was offered and sold in reliance on the exemption from registration afforded by Section 4(2) under the Securities Act of 1933, as amended.

On January 11, 2013, we entered into and closed the transactions described in a Securities Purchase Agreement with certain accredited investors identified therein (collectively, the “Purchasers”), whereby we sold 2,500 shares of newly created Series A-1 10% Convertible Preferred Stock (the “Series A-1 Preferred Stock”) and Warrants (as defined below) for an aggregate purchase price of \$2,500,000. We also entered into a Registration Rights Agreement whereby we agreed to file a registration statement to register the resale of the shares of our common stock that are potentially issuable under each of the securities described below.

The shares of Series A-1 Preferred Stock are initially convertible into a total of 4,166,666 shares of the Company’s common stock at a conversion price of \$0.60 per share (the “Conversion Price”), subject to future adjustments. The Series A-1 Preferred Stock will pay a 10.0% annual cash dividend, which may be payable in shares of our common stock in certain circumstances, and will have a liquidation preference equal to the stated value of the Series A-1 Preferred Stock of \$1,000 per share plus any accrued and unpaid dividends thereon. The Series A-1 Preferred Stock has no voting rights. The Conversion Price of the Series A-1 Preferred Stock is subject to adjustment as follows:

on the effective date of the registration statement, the Conversion Price will be reduced to the lesser of (1) the then Conversion Price, as adjusted and taking into consideration any prior resets, (2) the greater of \$0.35 (subject to adjustment for reverse and forward stock splits and the like) and 70% of the average of the five (5) trading day volume weighted average prices, or VWAPs, immediately prior to each such effective date or (3) \$0.60 (subject to adjustment for forward and reverse stock splits and the like). There was no conversion on the initial effective registration statement;

if on the 180th day immediately following the closing date of January 11, 2013 (the “Closing Date”), 70% of the average of the five (5) trading day VWAPs immediately prior to such date is less than the then Conversion Price, then on such 180th day the Conversion Price shall be reduced, and only reduced, to the lesser of (1) the then Conversion Price, as adjusted and taking into consideration any prior resets, (2) the greater of \$0.15 (subject to adjustment for reverse and forward stock splits and the like) and 70% of the average of the five (5) trading day VWAPs immediately prior to each such 180th day immediately following the Closing Date or (3) \$0.35 (subject to adjustment for forward and reverse stock splits and the like); and

if all of the shares required to be registered are not registered pursuant to an effective registration statement within the 120th day anniversary of the Closing Date, then on the 180th day and 270th day following the Closing Date, the Conversion Price shall be reduced, and only reduced, to the lesser of (1) the then Conversion Price, as adjusted and taking into consideration any prior resets, (2) the greater of \$0.15 (subject to adjustment for reverse and forward stock splits and the like) and 70% of the average of the five (5) trading day VWAPs immediately prior to each such date or (3) \$0.35 (subject to adjustment for forward and reverse stock splits and the like).

We also issued to the Purchasers a Series A warrant (the “Series A Warrant”), a Series B warrant (the “Series B Warrant”), and a Series C warrant (the “Series C Warrant”) (with the Series A Warrant, Series B Warrant and Series C Warrant being collectively referred to herein as the “Warrants”). The Series A Warrant allows the Purchasers the right to acquire, initially before any adjustments to the conversion price, up to an additional 4,166,666 shares of the Company’s common stock at an exercise price of approximately \$0.72 per share over a period of five (5) years. The Series A

Warrant also allows for such warrant to be exercised on a cashless basis. The Series B Warrant allows the Purchasers a one-year period to exercise an overallotment option as contained in the Series B Warrant to purchase, initially before any adjustments to the conversion price, up to an additional aggregate of 2,083,334 shares of the Company's common stock at a price of \$0.60 per share. The Series B Warrant may not be exercised on a cashless basis except only in certain limited circumstances. In the event the Purchasers exercise, in whole or in part the overallotment option as contained in the Series B warrant, then the Purchasers shall have the right to exercise on a pro rata basis the portion of the Series C Warrant issued to the Purchasers to acquire, initially before any adjustments to the conversion price, up to an additional aggregate of 2,083,334 shares of the Company's common stock at an exercise price of approximately \$0.72 per share over a period of five (5) years. The Series C Warrant allows for such warrant to be exercised on a cashless basis.

The Series A-1 Preferred Stock and the Warrants contain exercise and conversion limitations providing that a holder thereof may not convert or exercise (as the case may be) to the extent that, if after giving effect to such conversion or exercise (as the case may be), the holder or any of its affiliates would beneficially own in excess of 9.99% of the outstanding shares of common stock immediately after giving effect to such conversion or exercise (as the case may be).

The Series A-1 Preferred Stock and the Warrants were offered and sold pursuant to an exemption from the registration requirements under Sections 4(2), Section 4(6) and Regulation S of the Securities Act and Rule 506 of Regulation D promulgated thereunder.

We paid Chardan Capital Markets LLC a commission equal to (i) ten percent (10%) of the cash received by us and (ii) 416,666 shares of common stock. In the event the Purchasers exercise for cash any of the Warrants, then we will also pay an additional cash commission to Chardan Capital Markets LLC equal to eight percent (8%) (with no additional equity) of any such additional cash amounts received by us. After deducting fees and expenses, the aggregate net proceeds from the sale of the Series A-1 Preferred Shares and the Warrants were \$2.035 million. We are using the net proceeds for the payment of certain financial obligations and for working capital and other general corporate purposes.

Item 4. Mine Safety Disclosures

None

Item 5. Other Information

On May 9, 2013 we executed an agreement with the Purchasers of our Series A-1 Preferred Shares to pay certain accrued dividends on the Series A-1 Preferred Stock in shares of our common stock in lieu of cash. We agreed to pay the Purchasers an aggregate of 92,361 shares, subject to adjustment based on the VWAP on the five trading days prior to issuance, of our common stock in lieu of cash on July 12, 2013 for the dividends due on each of March 31, 2013 and June 30, 2013.

Item 6. Exhibits

Exhibit
10.1 Form of Restricted Stock Award Agreement

Exhibit
10.2 Form of Stock Option Award Agreement

Exhibit
31.1 Section 302 Certification – Chief Executive Officer

Exhibit
31.2 Section 302 Certification – Chief Financial Officer

Exhibit
32.1 Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350 as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002.

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101 Interactive data files formatted in XBRL (eXtensible Business Reporting Language): (i) the Consolidated Balance Sheets, (ii) the Consolidated Statements of Operations, (iii) the Consolidated Statements of Cash Flows, and (iv) the Notes to the Consolidated Financial Statements.

101.INS XBRL Instance Document

101.SCH XBRL Taxonomy Extension Schema Document

101.CAL XBRL Taxonomy Extension Calculation Linkbase Document

101.DEF XBRL Taxonomy Extension Definition Linkbase Document

101.LAB XBRL Taxonomy Extension Label Linkbase Document

101.PRE XBRL Taxonomy Extension Presentation Linkbase Document

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized:

22nd CENTURY GROUP, INC.

Date: May 10, 2013 /s/ Joseph Pandolfino
Joseph Pandolfino
Chief Executive Officer

Date: May 10, 2013 /s/John T. Brodfuehrer
John T. Brodfuehrer
Chief Financial Officer

22nd CENTURY GROUP, INC.

2010 EQUITY INCENTIVE PLAN

RESTRICTED STOCK AWARD AGREEMENT

This Agreement is made as of _____ (the “Effective Date”), between 22nd Century Group, Inc., a Nevada corporation with an address at 9530 Main Street, Clarence, New York 14031, (the “Company”) and _____, an individual residing at _____ (the “Executive”).

WHEREAS, the Company has adopted the 22nd Century Group, Inc. 2010 Equity Incentive Plan (the “Plan”), providing for the grant to certain officers, employees, directors, consultants and advisors of the Company and its Affiliates the opportunity to acquire shares of the Company’s Common Stock; and

WHEREAS, the Board has determined that it would be in the best interest of the Company and its shareholders to provide the Executive with an incentive to remain in the service of the Company and to increase shareholder value by providing the Executive with the opportunity to own Common Stock of the Company.

NOW THEREFORE, in consideration of the promises and mutual agreements set forth in this Agreement, the Executive and the Company hereby agree as follows:

1. Grant of Award.

(a) Award. The Company, as of the Effective Date, hereby grants to the Executive an award (the “Award”) of _____ shares of Common Stock of the Company (“Restricted Shares” or “Shares”) subject to the restrictions, terms and conditions set forth below and in the Plan.

(b) Equity Plan. This Award is granted pursuant to the Plan, a copy of which the Executive acknowledges having received. The terms and conditions of the Plan are incorporated into this Agreement by reference. If there is a conflict between the provisions of this Agreement and the provisions of the Plan, the provisions of the Plan will govern. Capitalized terms not otherwise defined in this Agreement have the meanings set forth in the Plan.

2. Vesting of Award.

3. Dividend and Voting Rights.

Subject to the terms of the Plan, the Executive will have all the rights of a shareholder of the Company with respect to voting the Restricted Shares awarded under this Agreement and receipt of dividends and distributions on such Shares.

4. Restrictions on Transfer.

5. Issuance and Custody of Certificate.

(a) Legends.

The Company will cause to be issued one or more stock certificates, registered in the name of the Executive evidencing the Restricted Shares granted under this Award. Each certificate issued in respect of the Restricted Shares will bear the following legend:

6. Agreements of the Executive.

The Executive acknowledges that: (a) this Agreement is not a contract of employment and the terms of the Executive's employment are not affected in any way by this Agreement except as specifically provided in this Agreement; and (b) the Award made by this Agreement does not confer any legal rights upon the Executive for continuation of employment or interfere with or limit the right of the Company to terminate the Executive's employment at any time.

7. Legal Compliance Restrictions.

The Company is not obligated to issue or deliver any certificates evidencing Restricted Shares awarded by this Agreement unless and until the Company is advised by its counsel that the issuance and delivery of the certificates are in compliance with all applicable laws, regulations of governmental authorities and the requirements of any securities exchange upon which the Common Stock of the Company is traded.

8. Taxes.

The Company has agreed to pay the federal income taxes, state income taxes, and payroll taxes (if applicable) incurred by the Executive with respect to the Award made by this Agreement – up to a limit of thirty percent (30%) of fair market value of the shares as determined by Troconi Segarra and Associates. The Executive agrees to pay or make arrangements for the payment to the Company of the amount of any remaining tax liability with respect to the Award made by this Agreement. Payment will be due on the date the Company is required to withhold such taxes. In the event that any payment is not made when due, the Company has the right (a) to deduct, to the extent permitted by law,

from any payment of any kind otherwise due to Executive from the Company all or a part of the amount required to be withheld, or (b) to pursue any other remedy at law or in equity.

9. Notices.

Except as otherwise provided in this Agreement, all offers, notices and other communications given pursuant to this Agreement will be deemed to have been properly given if in writing and (a) hand delivered, (b) mailed, addressed to the appropriate party at the address of the party as shown at the beginning of this Agreement, postage prepaid, by certified or registered mail or by Federal Express or similar overnight courier service, or (c) sent by e-mail, facsimile or similar electronic transmission, with confirmation sent by way of one of the methods provided above. Either party may from time to time designate by written notice given in accordance with the provisions of this Section any other address or party to which such notice or communication or copies thereof must be sent.

10. Binding Effect.

This Agreement is binding upon, and inures to the benefit of, the respective successors, assigns, heirs, executors, administrators and guardians of the parties hereto.

11. Opportunity to Review.

The Executive acknowledges and understands that this Agreement has been prepared on behalf of the Company by its legal counsel. The Executive further acknowledges and understands that it is advisable for him to, and he has had reasonable opportunity to, consult with legal counsel or other independent advisors, other than the Company's legal counsel, with respect to the terms and conditions of this Agreement

12. Severability.

Whenever possible, each provision of this Agreement will be interpreted in such a manner as to be enforceable under applicable law. However, if any provision of this Agreement is deemed unenforceable under applicable law by a court having jurisdiction, the provision will be unenforceable only to the extent necessary to make it enforceable without invalidating the remainder thereof or any of the remaining provisions of this Agreement.

13. New York Law.

This Agreement will be construed and interpreted in accordance with the laws of the State of New York without regard to principles of conflicts of law.

14. Multiple Counterparts.

This Agreement may be executed in one or more counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument. Any party may execute this Agreement by facsimile signature and the other party is entitled to rely on such facsimile signature as evidence that this Agreement has been duly executed by that party. Any party executing this Agreement by facsimile signature must immediately forward to

the other party an original signature page by overnight mail.

IN WITNESS WHEREOF, the Company and the Executive have caused this Agreement to be executed and delivered, all as of the day and year first above written.

22nd
CENTURY
GROUP,
INC.

By:
Name:
Title:

22nd CENTURY GROUP, INC.
2010 equity incentive PLAN

STOCK OPTION AGREEMENT

FOR EMPLOYEES

THIS STOCK OPTION AGREEMENT is made as of _____ (the “Effective Date”), between 22nd Century Group, Inc., a Nevada Company with an address at 9530 Main Street, Clarence, New York 14031 (the “Company”) and _____, an individual residing at _____ (the “Optionee”).

WHEREAS, the Company has adopted the 22nd Century Group, Inc. 2010 Equity Incentive Plan (the “Plan”), providing for the grant to certain officers, employees, directors, consultants and advisors of the Company or an Affiliate of options to purchase shares of the Company’s Common Stock; and

WHEREAS, the Board has determined that it would be in the best interests of the Company and its shareholders to provide the Optionee with an incentive to remain in the service of the Company and to increase stockholder value by granting him or her an option to purchase Common Stock of the Company.

NOW, THEREFORE, in consideration of the premises and mutual agreements set forth in this Agreement, the parties agree as follows:

SECTION 1. GRANT OF OPTION.

(a) **Option.** On the terms and conditions set forth in this Agreement and the Plan, the Company grants to the Optionee, on the Date of Grant, the option to purchase at the Exercise Price the number of Shares set forth below. This Option will be a NQSO or an ISO as designated below.

Number of Shares Subject to Option: _____

Date of Grant: _____

Exercise Price: _____

Type of Option: " NQSO

 " ISO

(b) Equity Plan. This Option is granted pursuant to the Plan, a copy of which the Optionee acknowledges having received and read. The provisions of the Plan are incorporated into this Agreement by reference. If there is a conflict between the provisions of this Agreement and the provisions of the Plan, the provisions of the Plan will govern.

SECTION 2. DEFINITIONS.

(a) The following terms have the meanings given them below:

(i) "Cause" means (1) willful misconduct that is materially injurious to the Company; (2) commission of a felony; (3) disclosure of confidential information regarding the Company or its customers; (4) commission of a crime against the Company that is materially injurious to the Company; (5) the material breach of the Optionee's contractual obligations to the Company; (6) gross negligence in the performance of the Optionee's duties. Determination of Cause will be made by the Company in its sole discretion.

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

(iii) "Date of Grant" means the date of grant of this Option as specified in Section 1 of this Agreement.

(iv) "Disability" means a mental or physical condition, as determined by the Board or by a licensed practicing physician selected by the Board, that is expected to be permanent or of long and indefinite duration, and that renders the Optionee incapable of performing the Optionee's duties.

(v) "Exercise Price" means the amount for which one Share may be purchased upon exercise of this Option, as specified in Section 1 of this Agreement. The Exercise Price will not be less than fair market value of the underlying Shares at the Date of Grant, as determined in accordance with the requirements of Code Section 409A.

(vi) "ISO" means an Option intended to qualify as an "incentive stock option" under Code Section 422.

(vii) "NQSO" means a "nonqualified stock option," or an Option that does not meet the requirements of Code Section 422.

(viii) "Purchase Price" means the Exercise Price multiplied by the number of Shares with respect to which this Option is being exercised.

(b) All capitalized terms used but not otherwise defined in this Agreement have the meanings given them in the Plan.

SECTION 3. RIGHT TO EXERCISE.

(a) Exercisability. Subject to Subsections (b) and (c) below and the other conditions set forth in this Agreement and the Plan, this Option may be exercised with respect to 100% of the Shares subject to the Option on or after _____.

(b) Partial Exercise. At any time before any exercisable portion of the Option becomes unexercisable under this Agreement, that portion may be exercised in whole or in part, except that the Company is not required to issue fractional Shares.

(c) Discretionary Acceleration of Vesting. Notwithstanding any other provision of this Agreement, the Board (or the Committee, if applicable) may, in its sole discretion, accelerate vesting and exercisability of the Options if it determines circumstances so warrant. The Optionee will not participate in any decision whether to accelerate the vesting of his or her Option under this provision.

SECTION 4. NO TRANSFER OR ASSIGNMENT OF OPTION.

Except as otherwise provided in this Agreement, this Option and the rights and privileges conferred by this Agreement may not be transferred other than by will or by the laws of descent and distribution. The Option is exercisable during the Optionee's lifetime only by the Optionee, or by the Optionee's guardian or legal representative. Neither the Option nor any interest in the Option may be pledged, assigned or sold by the Optionee during the Optionee's lifetime, whether by operation of law or otherwise, or be made subject to execution, attachment, levy or similar process. The terms of the Plan and this Agreement are binding upon the executors, administrators, heirs, successors and assigns of the Optionee.

SECTION 5. EXERCISE AND PAYMENT.

(a) Notice of Exercise. The Optionee or the Optionee's representative may exercise this Option by giving written notice to the Company in a form acceptable to the Company. The notice must specify the election to exercise this Option, the number of Shares for which it is being exercised and the form and amount of payment. The notice must be signed by the person exercising this Option. If this Option is exercised by the representative of the Optionee, the notice must be accompanied by proof (satisfactory to the Company) of the representative's right to exercise this Option.

(b) Payment for Shares.

(i) Cash. All or part of the Purchase Price may be paid in cash or cash equivalents.

(ii) Surrender of Shares. In the sole discretion of the Board, all or any part of the Purchase Price, plus the amount of any withholding taxes for which such payment is permitted by the Company, may be paid by surrendering, or attesting to the ownership of, Shares that are already owned by the Optionee and that are acceptable to the Board. Those Shares will be surrendered to the Company in good form for transfer and will be valued at their Fair Market Value on the date when this Option is exercised. The Optionee may not surrender, or attest to the ownership of, Shares in payment of the Purchase Price or any withholding taxes if that action would result in adverse accounting consequences for the Company.

(iii) Exercise/Sale. If Shares are publicly traded, all or part of the Purchase Price and any withholding taxes may be paid by the delivery (on a form prescribed by the Company) of an irrevocable direction to a securities broker approved by the Company to sell Shares and to deliver all or part of the sales proceeds to the Company.

(iv) Exercise/Pledge. If Shares are publicly traded, all or part of the Purchase Price and any withholding taxes may be paid by the delivery (on a form prescribed by the Company) of an irrevocable direction to pledge Shares to a securities broker or lender approved by the Company, as security for a loan, and to deliver all or part of the loan proceeds to the Company.

(c) Issuance of Shares. After receiving a proper notice of exercise and payment for the Shares, the Company will issue a certificate or certificates for the Shares as to which this Option has been exercised, registered in the name of the person exercising this Option (or in the names of the person and his or her spouse as community property or as joint tenants with right of survivorship). The Company will cause the certificate or certificates to be deposited in escrow or delivered to or upon the order of the person exercising this option.

(d) Withholding Taxes. If the Company determines that it is required to withhold any tax as a result of the exercise of this Option, the Optionee, as a condition to the exercise of this option, must make arrangements in accordance with the Plan and satisfactory to the Company to enable it to satisfy all withholding requirements.

SECTION 6. TERM AND EXPIRATION.

(a) Basic Term. This Option will expire on the date that is 10 years after the Date of Grant (five years after the Date of Grant if this Option is designated as an ISO in this Agreement AND Optionee is a 10% Owner-Employee at the Date of Grant).

(b) Termination of Employment (Other than by Death). If the Optionee's employment with the Company terminates for any reason other than the Optionee's death, then the Optionee's Option will expire on the earliest of the following:

(i) The expiration date determined under subsection (a) above;

(ii) The date 90 days after the termination of the Optionee's employment for any reason other than Cause or Disability;

(iii) The date of the termination of the Optionee's employment for Cause; or

(iv) The date 12 months after the termination of the Optionee's employment by reason of Disability.

Notwithstanding the provisions of Subsection (b) (ii) above, and subject to Subsection (a) above and the requirements of Code Section 409A, the Board in its sole discretion may permit an Optionee to exercise his or her Option on a date more than 90 days after the termination of the Optionee's employment for reasons other than Cause, Disability or death. If an Option is exercised after that date, even though this Option may be designated as an ISO in this Agreement, the exercised Option will not qualify for favorable tax treatment as an ISO.

The Optionee may exercise all or part of his or her Option at any time before the expiration of the Option under this Subsection, but only to the extent that the Option had become exercisable before the Optionee's employment terminated (or became exercisable as a result of the termination). If the Optionee dies after termination of employment but before the expiration of the Optionee's Option, all or part of the Option may be exercised (prior to expiration) by the executors or administrators of the Optionee's estate or by any person who has acquired the Option directly from the Optionee by beneficiary designation, bequest or inheritance, or in the case of NQSOs only, by other transfer, if permitted, but in any event only to the extent that the Option had become exercisable before the Optionee's employment terminated (or became exercisable as a result of the termination).

(c) Death of Optionee. If an Optionee dies while employed by the Company, then his or her Option expires on the earlier of the following dates:

- (i) The expiration date determined under Subsection (a) above; or
- (ii) The date 12 months after the Optionee's death.

At any time before the expiration of the Option under the preceding sentence, all or part of the Optionee's Option may be exercised by the executors or administrators of the Optionee's estate or by any person who has acquired the Option directly from the Optionee by beneficiary designation, bequest or inheritance, or in the case of NQSOs only, by other transfer, if permitted, but in any event only to the extent that the Option had become exercisable before the Optionee's death or became exercisable as a result of death.

(d) Notice Concerning ISO Treatment. If this Option is designated as an ISO in this Agreement, it ceases to qualify for favorable tax treatment as an ISO to the extent it is exercised after the Optionee has been on a leave of absence for more than 90 days, unless the Optionee's reemployment rights are guaranteed by statute or by contract.

SECTION 7. LEGALITY OF INITIAL ISSUANCE.

No Shares will be issued upon the exercise of this Option unless and until the Company has determined that:

- (a) It and the Optionee have taken any actions required to register the Shares under the Securities Act or to perfect an exemption from the registration requirements thereof;
- (b) Any applicable listing requirement of any stock exchange or other securities market on which Stock is listed has been satisfied; and
- (c) Any other applicable provision of state, federal, or foreign law has been satisfied.

SECTION 8. RESTRICTIONS ON TRANSFER.

Regardless of whether the offering and sale of Shares under this Agreement have been registered under the Securities Act or have been registered or qualified under the securities laws of any state, the Company at its discretion may impose restrictions on the sale, pledge or other transfer of the Shares (including the placement of appropriate legends on stock certificates or the imposition of stop-transfer instructions) if, in the judgment of the Company, those restrictions are necessary or desirable to achieve compliance with the Securities Act, the securities laws of any state or any other law. Any determination by the Company and its counsel in connection with any of the matters set forth in this Section 8 is conclusive and binding on the Optionee and all other persons.

SECTION 9. MISCELLANEOUS PROVISIONS.

(a) Income Tax Consequences. The Optionee acknowledges that the Company has advised him or her that there are income tax consequences related to the purchase of Shares by the Optionee and that the Company has recommended that he or she obtain independent advice on the tax consequences of the purchase of the Shares. The Optionee hereby releases and discharges the Company and its affiliates, directors, officers and agents from any and all responsibility or liability with respect to any tax consequences to the Optionee of his or her purchase or sale of the Shares of the Company purchased by the Optionee under the Plan or otherwise.

(b) Notification Upon Disqualifying Disposition. With respect to any ISO granted under this Agreement, the Optionee agrees to notify the Company of any disposition of Shares issued pursuant to the exercise of the ISO under the circumstances described in Code Section 421(b) (relating to certain disqualifying dispositions) within ten days of such disposition.

(c) Rights as a Shareholder. Neither the Optionee nor the Optionee's representative has any rights as a shareholder with respect to any Shares subject to this Option prior to the date of issuance to the Optionee or the Optionee's representative of a certificate or certificates for the Shares.

(d) No Retention Rights. Nothing in this Agreement or in the Plan confers upon the Optionee any right to continue in the employ of the Company for any period of time or interferes with or otherwise restricts in any way the rights of the Company (or any Affiliate) or of the Optionee, which rights are hereby expressly reserved by each, to terminate his or her employment at any time and for any reason.

(e) Notices. Except as otherwise provided in this Agreement, all offers, notices and other communications given pursuant to this Agreement will be deemed to have been properly given if in writing and (a) hand delivered, (b) mailed, addressed to the appropriate party at the address of the party as shown at the beginning of this Agreement, postage prepaid, by certified or registered mail or by Federal Express or similar overnight courier service, or (c) sent by e-mail, facsimile or similar electronic transmission, with confirmation sent by way of one of the methods provided above. Either party may from time to time designate by written notice given in accordance with the provisions of this Section any other address or party to which such notice or communication or copies thereof must be sent.

(f) Entire Agreement. This Agreement and the Plan constitute the entire contract between the parties hereto with regard to the grant and exercise of the Option. They supersede any other agreements, representations or understandings (whether oral or written and whether express or implied) that relate to the Option.

(g) Choice of Law. This Agreement is governed by, and construed in accordance with, the laws in force in the State of New York.

IN WITNESS WHEREOF, the parties have executed this Agreement.

OPTIONEE: COMPANY:

22nd
CENTURY
GROUP,
INC

Signature

By:
Name of Optionee Name:

Title: