Nile Therapeutics, Inc. Form 424B3 August 15, 2011

> Filed Pursuant to Rule 424(b)(3) File No. 333-175726

Prospectus Supplement No. 1 (to Prospectus dated August 8, 2011)

This Prospectus Supplement No. 1 supplements and amends our prospectus dated August 8, 2011 (the "Prospectus"). The selling stockholders identified on page 23 of the Prospectus are offering on a resale basis a total of 7,750,000 shares of our common stock, including 2,750,000 shares issuable upon the exercise of outstanding warrants.

Attached hereto and incorporated by reference herein is our Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, which we filed with the Securities and Exchange Commission on August 15, 2011. The information set forth in the attached Quarterly Report supplements and amends the information contained in the Prospectus.

This Prospectus Supplement No. 1 should be read in conjunction with, and delivered with, the Prospectus and is qualified by reference to the Prospectus except to the extent that the information in this Prospectus Supplement No. 1 supersedes the information contained in the Prospectus.

Our common stock is quoted on the OTCQB under the symbol "NLTX.PK" On August 12, 2011, the last sale price of our common stock as reported on the OTCQB was \$0.66.

Investing in our common stock involves a high degree of risk. See "Risk Factors" beginning on page 3 of the Prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined that the Prospectus or this Prospectus Supplement No. 1 is truthful or complete. A representation to the contrary is a criminal offense.

The date of this Prospectus Supplement No. 1 is August 15, 2011.

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

(Mark One)

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

FOR THE QUARTERLY PERIOD ENDED JUNE 30, 2011

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

FOR THE TRANSITION PERIOD FROM

TO

Commission File Number: 001-34058

NILE THERAPEUTICS, INC. (Exact Name Of Registrant As Specified In Its Charter)

Delaware (State of Incorporation)

88-0363465 (I.R.S. Employer Identification No.)

4 West 4th Ave., Suite 400, San Mateo, CA 94402 (Address of principal executive offices)(Zip Code)

(650) 458-2670
(Registrant's telephone number, including area code)
Not Applicable
(Former name, former address and former fiscal year, if changed since last report)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act 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 x 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 during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). x Yes "No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer,

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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 "(Do not check if a smaller reporting company)

Smaller reporting company x

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

As of August 12, 2011, there were 39,707,764 shares of common stock, par value \$0.001 per share, of Nile Therapeutics, Inc. issued and outstanding.

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Forward-Looking Statements

This Quarterly Report contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Any statements about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and may be forward-looking. These forward-looking statements include, but are not limited to, statements about:

- the development of our product candidates;
- the regulatory approval of our product candidates;
- our use of clinical research centers and other contractors;
- •our ability to find collaborative partners for research, development and commercialization of potential products;
 - acceptance of our products by doctors, patients or payors;
 - our ability to market any of our product candidates;
 - our history of operating losses;
 - our ability to compete against other companies and research institutions;
 - our ability to secure adequate protection for our intellectual property;
 - our ability to attract and retain key personnel;
 - availability of reimbursement for our product candidates;
 - the effect of potential strategic transactions on our business;
 - our ability to obtain adequate financing; and
 - the volatility of our stock price.

These statements are often, but not always, made through the use of words or phrases such as "anticipate," "estimate," "plan," "project," "continuing," "ongoing," "expect," "believe," "intend" and similar words or phrases. For such statements, we the protection of the Private Securities Litigation Reform Act of 1995. Readers of this Quarterly Report on Form 10-Q are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the time this Quarterly Report on Form 10-Q was filed with the Securities and Exchange Commission, or SEC. These forward-looking statements are based largely on our expectations and projections about future events and future trends affecting our business, and are subject to risks and uncertainties that could cause actual results to differ materially from those anticipated in the forward-looking statements. Discussions containing these forward-looking statements may be found throughout this report, including Part I, the section entitled "Item 2: Management's Discussion and Analysis of Financial Condition and Results of Operations." These forward-looking statements involve risks and uncertainties, including the risks discussed in our Annual Report on Form 10-K for the year ended December 31, 2010 ("Form 10-K"), that could cause our actual results to differ materially from those in the forward-looking statements. Except as required by law, we undertake no obligation to publicly revise our forward-looking statements to reflect

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events or circumstances that arise after the filing of this report or documents incorporated by reference herein that include forward-looking statements. The risks discussed in our Form 10-K and in this report should be considered in evaluating our prospects and future financial performance.

In addition, past financial or operating performance is not necessarily a reliable indicator of future performance and you should not use our historical performance to anticipate results or future period trends. We can give no assurances that any of the events anticipated by the forward-looking statements will occur or, if any of them do, what impact they will have on our results of operations and financial condition.

References to the "Company," "Nile," the "Registrant," "we," "us," or "our" in this report refer to Nile Therapeutics, Inc., a Delaware corporation, unless the context indicates otherwise.

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PART I — FINANCIAL INFORMATION

Item 1.Financial Statements.

NILE THERAPUTICS, INC.

(A DEVELOPMENT STAGE COMPANY) CONDENSED BALANCE SHEETS

	June 30, 2011 (unaudited)		December 31, 2010
ASSETS			
Current assets			
Cash and cash equivalents	\$ 3,259,835	\$	3,378,155
Prepaid expenses and other current assets	379,877		219,095
Total current assets	3,639,712		3,597,250
Property and equipment, net	12,698		16,765
Other noncurrent assets	51,938		51,938
Total assets	\$ 3,704,348	\$	3,665,953
LIABILITIES AND STOCKHOLDERS' EQUITY			
Current liabilities			
Accounts payable	\$ 237,760	\$	332,380
Accrued expenses and other current liabilities	161,143		652,275
Due to related party	37,371		84,430
Total current liabilities	436,274		1,069,085
Commitments and contingencies			
Stockholders' equity			
Preferred stock, \$0.001 par value, 10,000,000 shares authorized, none issued			
and outstanding	_		_
Common stock, \$0.001 par value, 100,000,000 shares authorized, 39,707,764			
and 34,629,794 shares issued and outstanding	39,708		34,630
Additional paid-in capital	45,234,882		42,492,432
Deficit accumulated during the development stage	(42,006,516)		(39,930,194)
<i>β</i>	(,,,		(,,-,-,
Total stockholders' equity	3,268,074		2,596,868
			_,0,000
Total liabilities and stockholders' equity	\$ 3,704,348	\$	3,665,953
	, -,,	+	. , ,

See accompanying notes to the unaudited condensed financial statements.

NILE THERAPUTICS, INC. (A DEVELOPMENT STAGE COMPANY) CONDENSED STATEMENTS OF OPERATIONS (unaudited)

	Three Months Ended June 30,		Six Months E		Period from August 1, 2005 (inception)			
	2011		2010	2011	2010		ugh June 30, 201	
Income								
Grant income	\$ -		\$ -	\$-	\$-	\$	482,235	
Collaboration income	346,000		-	346,000	-		346,000	
Total income	346,000			346,000			828,235	
Total income	340,000		-	340,000	-		626,233	
Operating expenses:								
Research and development	702,930		1,055,759	1,325,262	2,369,181		27,184,202	
General and administrative	523,305		445,448	1,098,583	1,068,650		15,308,014	
Total operating expenses	1,226,235		1,501,207	2,423,845	3,437,831		42,492,216	
Y C	(000.005	`	(1.501.007.)	(2.077.045.)	(2.427.021	`	(41,662,001	`
Loss from operations	(880,235)	(1,501,207)	(2,077,845)	(3,437,831)	(41,663,981)
Other income (expense):								
Interest income	1,046		6,726	3,032	11,572		790,991	
Interest expense	-		-	-	-		(1,273,734)
Other income (expense)	(1,341)	(40)	(1,509)	(82)	140,208	
Total other income (expense)	(295)	6,686	1,523	11,490		(342,535)
	# (000 #3 0		. (1.101.701.)	* (* 0 = 6 000)	* (2.125.211	` ^	(10.006.716	
Net loss	\$ (880,530)	\$(1,494,521)	\$(2,076,322)	\$(3,426,341) \$	(42,006,516)
Basic and diluted loss per share	\$ (0.03)	\$(0.05)	\$(0.06)	\$(0.12)		
Busic and directed loss per share	Ψ (0.03	,	ψ (0.05	ψ(0.00	ψ(0.12	,		
Weighted-average common shares outstanding	35,091,653	3	32,285,824	34,882,947	29,700,189	,		
	,,		,,	,,,	, , >			

See accompanying notes to the unaudited condensed financial statements.

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NILE THERAPEUTICS, INC. (A DEVELOPMENT STAGE COMPANY) CONDENSED STATEMENT OF STOCKHOLDERS' EQUITY (DEFICIT) PERIOD FROM AUGUST 1, 2005 (INCEPTION) TO JUNE 30, 2011 (unaudited)

	COMMON	STOCK	ADDITIONAL PAID-IN	DEFICIT ACCUMULATE DURING THE DEVELOPMEN	E ST	TOTAL FOCKHOLDERS ' EQUITY	
	SHARES	AMOUNT	CAPITAL	STAGE	11	(DEFICIT)	
Issuance of common shares to founders	13,794,132	\$13,794	\$ (8,794)	\$ -	\$	5,000	
Founders shares returned to treasury	(1,379,419)	-	-	-		-	
Net loss	-	-	-	(10,043)	(10,043)	
Balance at December 31, 2005	12,414,713	13,794	(8,794)	(10,043)	(5,043)	
Issuance of common shares pursuant to licensing agreement	1,379,419	-	500	-		500	
Issuance of stock options for services	-	-	10,000	-		10,000	
Net loss	-	-	-	(2,581,972)	(2,581,972)	
Balance at December 31, 2006	13,794,132	13,794	1,706	(2,592,015)	(2,576,515)	
Issuance of common shares pursuant to licensing agreement	63,478	64	182,172	-		182,236	
Issuance of common shares pursuant to licensing agreement	350,107	350	999,650	-		1,000,000	
Common shares sold in private placement, net of issuance costs of \$102,000	6,957,914	6,958	19,865,789	-		19,872,747	
Warrants issued in connection with note conversion	-	-	288,000	-		288,000	
Conversion of notes payable upon event of merger	1,684,085	1,684	4,349,481	-		4,351,165	
Note discount arising from beneficial conversion feature	_	_	483,463	-		483,463	

Reverse merger transaction					
Elimination of accumulated deficit	-	_	(234,218)	-	(234,218)
Previously issued SMI stock	1,250,000	1,250	232,968	-	234,218
•					
Employee stock-based					
compensation	-	-	1,902,298	-	1,902,298
Non-employee stock-based			(667		(667
compensation	-	-	(667)	-	(667)
Net loss				(10,302,795)	(10,302,795)
Net loss	-	-	-	(10,302,793)	(10,302,793)
Balance at December 31, 2007	24,099,716	24,100	28,070,642	(12,894,810)	15,199,932
Butunee at December 31, 2007	21,000,710	24,100	20,070,042	(12,0)4,010	13,177,732
Warrants issued in satisfaction of					
accrued liabilities	-	-	334,992	-	334,992
			·		·
Employee stock-based					
compensation	-	-	2,436,603	-	2,436,603
Non-employee stock-based					
compensation	-	-	13,687	-	13,687
T C 1					
Issuance of common shares	40.690	50	240.050		250,000
pursuant to licensing agreement	49,689	30	249,950	-	250,000
Net loss	_	_	-	(13,131,596)	(13,131,596)
1000				(13,131,370)	(13,131,370)
Balance at December 31, 2008	24,149,405	24,150	31,105,874	(26,026,406) \$	5,103,618
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Employee stock-based					
compensation	-	-	1,772,597	-	1,772,597
Non-employee stock-based					
compensation	-	-	473,584	-	473,584
TT ', 11' ' , 1					
Units sold in private placement,	2 601 204	2.601	2 204 404		2 207 175
net of issuance costs of \$282,773	2,691,394	2,691	3,284,484	-	3,287,175
Stock option and warrant exercises	245,025	245	217,228	_	217,473
Stock option and warrant exercises	243,023	27 <i>3</i>	217,220	_	217,773
Net loss	_	_	_	(7,872,297)	(7,872,297)
				(1)21) 21	(1,21, , 21,)
Balance at December 31, 2009	27,085,824	27,086	36,853,767	(33,898,703)	2,982,150
				·	
Employee stock-based					
compensation			1,142,552	-	1,142,552
Non-employee stock-based					
compensation			(19,249)		(19,249)

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TT-1414 to outside also one							
Units sold in private placement,							
net of issuance costs of \$715,801	7,475,000	7,475	4,509,224	-		4,516,699	
Stock option and warrant exercises	68,970	69	6,138	-		6,207	
•							
Net loss	_	-	-	(6,031,491)	(6,031,491)
				, ,			
Balance at December 31, 2010	34,629,794	34,630	42,492,432	(39,930,194)	2,596,868	
, , , , , , , , , , , , , , , , , , , ,	- , ,	- ,	, - , -	(,,-	/	, ,	
Employee stock-based							
compensation			437,715	_		437,715	
1			,			,	
Stock option and warrant exercises	77,970	78	11,169	-		11,247	
,	, , , , , , , , , , , , , , , , , , ,		,			,	
Units sold in private placement,							
net of issuance costs of \$201,434	5,000,000	5,000	2,293,566	_		2,298,566	
, , ,	, , , , , , , , , ,	,	,,			, , , , , , , , , , , ,	
Net loss	_	_	_	(2,076,322)	(2,076,322)
				(=, · · · · , = ==	,	, , , , , , , , , , , , , , , , , , , ,	,
Balance at June 30, 2011	39,707,764	\$39,708	\$ 45,234,882	\$ (42,006,516) \$	3,268,074	
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See accompanying notes to the unaudited condensed financial statements.

NILE THERAPEUTICS, INC. (A DEVELOPMENT STAGE COMPANY) CONDENSED STATEMENTS OF CASH FLOWS (unaudited)

Six Months Ended June 30,

Period from August 1, 2005 (inception) through June 30, 2011

2011 2010

Cash flows from operating activities