COMPANY NOTE

Estimate Change

USA | Healthcare | Biotechnology

November 6, 2014

Jefferies

Price target \$10.00 Price \$4.28

Minerva (NERV) 3Q14 Update - Multiple Initial Readouts in 4Q14/1Q15

Key Takeaway

Although the key Phase 2b readout for MIN-101 will be delayed by a quarter to 1H16, there will be multiple readouts from Phase 1 trials for both MIN-101 and MIN-202 expected in the next six months, including initial proof-of-concept data for MIN-202 in insomnia. This currently represents upside to our valuation.

Slight Delay To Initiation Of Phase 2b Trial For MIN-101. NERV expects to begin the 234-patient Phase 2b study in 1H15, from the prior guidance of 1Q15. As a result, the topline results of the Phase 2b trial are expected in 1H16. Top-line results from the single-dose portion of the healthy volunteer Phase 1 trial with the once-daily formulation of MIN-101 are expected later this quarter. Multiple formulations will be tested. The second portion of the Phase 1 trial will have the QD formulation administered over seven days to observe the PK/PD of the drug. Results from this portion are expected in 1Q15. Finally, NERV will submit the Phase 2b study protocol in Europe this quarter. They are preparing to go to the FDA on filing an IND for MIN-101, and expect to have a meeting in the next few weeks. We derive the majority of our target price from MIN-101.

MIN-202 Continues To Progress. There are three ongoing Phase 1 studies of MIN-202 for the treatment of insomnia. The first study is a bioavailability study in healthy male volunteers. The purpose of the trial is to switch from a liquid formulation to an oral solid dose, with results expected this quarter. The two other Phase 1b trials are in patients with secondary insomnia due to major depressive disorder and a multiple ascending dose trial in healthy volunteers to determine safety/tolerability. Top-line results from both trials are expected in

Financials. The company ended the quarter with \$23.6m in cash and expects this cash will be sufficient to fund operations through the end of 2015.

Valuation/Risks

We reach our \$10 PT through a sum-of-the parts DCF of \$7.50 MIN-101 + \$1.50 MIN-117 + \$1 cash. NERV is subject to standard biotech risks including clinical, regulatory, and commercial.

USD	Prev.	2012A	Prev.	2013A	Prev.	2014E	Prev.	2015E
Rev. (MM)		0.0		0.0		0.0		25.0
EV/Rev								2.1x
EPS								
Mar						(0.43)A		
Jun						(2.32)A		
Sep					(1.57)	(1.53)A		
Dec					(0.55)	(0.53)		
FY Dec		(0.47)		(0.63)	(4.64)	(4.55)	(2.25)	(2.19)
FY P/E		NM		NM		NM		NM

Financial Summary	
Net Debt (MM):	(\$23.6)
Long-Term Debt (MM):	\$0.0
Market Data	
52 Week Range:	\$7.90 - \$4.10
Total Entprs. Value (MM):	\$52.6
Market Cap. (MM):	\$76.2
Insider Ownership:	N/
Institutional Ownership:	N/
Shares Out. (MM):	17.8
Float (MM):	4.1
Avg. Daily Vol.:	31,319

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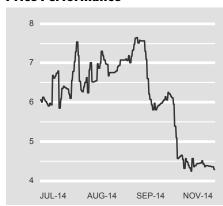
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Price Performance



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NERV: Historical and Projected Revenue and Earnings

December 31 Fiscal Year (\$000s, except per share)	2012A	2013A	1Q14A	2Q14A	3Q14A	4Q14E	2014E	2015E	2016E	2017E	2018E	2019E	2020E	2021E	2022E
MN-101 Sales								_			_	45 470	221.239	751,234	1,589,771
U.S.	_	-	-	-	-	-	_			-	-	15,479 11,150	161,607	751,234 550,462	1,589,771
ED GZ		-	-	-	-		-	-	-			4,328	58,550	186,135	370,208
ROW	-	-	-	-	-	-	-	-	-	-	-	4,328	1.082	14,637	46,534
U.S. Royalties to Minerva	+	-	-			-			-			2.676	38,786	136,129	
	_	-	-	-	-		-	_	-	-	-	1.039	38,786 14,312	48,185	317,369
ROW Royalties to Minerva	-	-					-		-	-		1,039	14,312	48,185	100,018
MN-117 Sales	-	_	-	_	_	-	_	_	_	_	_	-	189,406	629,527	1,278,142
U.S.	-	-	-	_	_	-	_	_	-	-	_	-	189,406	512,823	943,290
ROW	-	-	-	_	_	-	_	_	-	-	_	-		116,704	334,852
U.S. Royalties to Minerva	-	_	-	-	_	-	-	_	-	-	-	-	17,047	46,667	102,628
ROW Royalties to Minerva	-	-	-	-	-	-	-	_	-	-	-	-	-	8,169	23,440
														,	
Total Royalties	-	-	-	-	_	-	_	-	-	-	-	3,715	70,144	239,151	543,455
Miestones	_	_	_	_	_	-	_	25,000	_	15,000	100,000	175,000	150,000	100,000	100,000
Other	_	_	_	_	_	-	_	-	_	-	-	-	-	-	-
Total Revenue	-	-	-	-	-	-	-	25,000	-	15,000	100,000	178,715	220,144	339,151	643,455
Payments to Mtsubishi	-	-	-	-	-	-	-	2,500	-	1,500	10,000	19,601	45,983	113,217	232,230
R&D	550	501	485	1,589	24,638	5,000	31,712	32,000	45,000	50,000	40,000	55,000	75,000	100,000	125,000
SG&A	443	1,799	1,836	1,547	1,613	3,000	7,996	9,595	10,747	12,036	13,481	15,098	16,910	18,939	21,212
IncomefromOperations	(993)	(2,300)	(2,321)	(3,136)	(26,251)	(8,000)	(39,708)	(19,095)	(55,747)	(48,536)	36,519	89,015	82,251	106,995	265,012
Other Income	o	2	_	10	11	24	45	260	133	262	610	1,277	2,131	2,923	3,776
Other Expenses	(1)	(89)	(315)		(15)	(650)	(980)	(2,600)		(2,600)	-	_,			-
	(1)	(65)	(313)		(13)	(030)	(300)	(2,000)	(2,000)	(2,000)					
Pre-Tax Income	(994)	(2,387)	(2,636)	(3,126)	(26,255)	(8,626)	(40,643)	(21,435)	(58,214)	(50,874)	37,130	90,293	84,381	109,917	268,788
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Tax Expense	-	-	-	-	-	-	-	-	-	-	13,738	33,408	31,221	40,669	99,452
Tax Rate	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	37%	37%	37%	37%	37%
I			4	4											
Net Income	(994)	(2,387)	(2,636)	(3,126)	(26,255)	(8,626)	(40,643)	(21,435)	(58,214)	(50,874)	23,392	56,884	53,160	69,248	169,337
Diluted shares outstanding	3,381	4.838	6,903	7,605	17,752	17,952	12,553	18,439	21,939	30,539	36,287	36,716	37.140	37,565	37,994
DIGCOSIEICO CODEINIE	3,361	4,036	0,903	,,003	17,732	17,552	12,333	10,439	21,939	30,339	30,287	30,710	37,140	37,303	37,334
Net Loss per share	\$ (0.29)	\$ (0.49)	\$ (0.38) \$	(0.41) \$	(1.48) \$	(0.48)	\$ (3.24)	\$ (1.16)	\$ (2.65)	\$ (1.67)	\$ 0.64	\$ 1.55	\$ 1.43	\$ 1.84	\$ 4.46
					•										
Options Expense	588	656	302	14,514	900	800	16,516	18,993	21,843	25,119	28,887	33,220	38,203	43,933	50,523
EPS with Options Expense	\$ (0.47)	\$ (0.63)	\$ (0.43) \$	(2.32) \$	(1.53) \$	(0.53)	\$ (4.55)	\$ (2.19)	\$ (3.65)	\$ (2.49)	\$ (0.15)	\$ 0.64	\$ 0.40	\$ 0.67	\$ 3.13
Source: Company data, Jefferies Group II Cestimate															

Source: Company data, Jefferies Group LLC estimate

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NERV: Historical and Projected Changes in Financial Position

December 31 Fiscal Year (\$000s)	2012A	2013A	2014E	2015E	2016E	2017E	2018E	2019E	2020E	2021E	2022E
Cash flows from operating activities											
Net loss	(994)	(2,387)	(40,643)	(21,435)	(58,214)	(50,874)	23,392	56,884	53,160	69,248	169,337
Adjustments to reconcile used in operating activities:											
NOLUtilization	-	-	-	-	-	-	13,738	33,408	31,221	40,669	-
Amortization of debt discount recorded as interest expense	-	36	-	-	-	-	-	-	-	-	-
Change in fair value of derivative	-	0	-	-	-	-	-	-	-	-	-
Unrealized foreign exchange loss	-	20	-	-	-	-	-	-	-	-	-
Interest expense	-	23	-	-	-	-	-	-	-	-	-
Changes in operating assets and liabilities											
Accounts receivable			-	-	-	-	-	-	(11,837)	(34,002)	(86,944)
Prepaid expenses	25	(6)	-	-	-	-	-	-	-	-	-
Accounts payable	-	538	-	-	-	-	-	-	-	-	-
Accrued expenses and other liabilities	59	(383)	(700)	-	-	-	-	-	-	-	-
Net cash used in operating activities	(909)	(2,159)	(41,343)	(21,435)	(58,214)	(50,874)	37,130	90,293	72,544	75,916	82,393
Cash flows from investing activities:											
Equipment purchases	-	(3)	(5)	(10)	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Cash acquired in business acquisition	-	631	1,168								
Net cash provided by investing activities	-	628	1,163	(10)	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Cash flows from financing activities											
Proceeds from issuance of convertible promissory notes	-	1,300	-	-	-	-	-	-	-	-	-
Proceeds from options exercises			5,096	-	-	1,898	2,610	3,445	4,421	5,558	6,878
Proceeds fromfollowon offerings	900	1,850	31,672	-	54,285	98,836	_	_	-	-	-
Debt issuance/repayment			18,600			(20,000)					
Stock issuance costs	-	-	19,700	_	_	-	_	-	-	-	-
Net cash provided by financing activities	900	3,150	75,068	_	54,285	80,734	2,610	3,445	4,421	5,558	6,878
Net (decrease) increase in cash and cash equivalents	(9)	1,619	34,888	(21,445)	(3,949)	29,840	39,719	93,718	76,945	81,453	89,250
Beginning of period	209	200	1,818	36,706	15,261	11,312	41,152	80,871	174,588	251,534	332,987
End of period	200	1,818	36,706	15,261	11,312	41,152	80,871	174,588	251,534	332,987	422,237

Source: Company data, Jefferies Group LLC estimate

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NERV: Historical Condensed Balance Sheets

(000s)	12/31/2013	3/31/2013	6/30/2014	9/30/2014
Assets				
Cash and cash equivalents	1,818	2,141	480	23,640
Prepaid expenses	1	46	33	584
Total current assets	1,819	2,187	513	24,224
Equipment	3	31	27	35
In-process research and development	19,000	34,200	34,200	34,200
Goodwill	7,918	15,104	15,104	14,869
Deferred public offering costs	434	-	3,112	-
Other assets	-	1,615	-	-
Total assets	29,175	53,138	52,956	73,328
Liabilities				
Accounts payable, accrued expenses, and other current liabilities	1,348	5,052	8,046	3,179
Convertible promissory notes	58	333	2,007	-
Total current liabilities	1,407	5,384	10,053	3,179
Deferred tax liability	7,589	13,669	13,669	13,434
Total liabilities	8,995	19,053	23,722	16,613
Stockholders' equity	20,180	34,085	29,235	56,715
Total liabilities and stodyholders' equity	29,175	53,138	52,956	73,328

Source: Company Reports, Jefferies Group ILC November 6, 2014

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Company Description

Minerva is focused on developing neuropsychiatry drugs. Minerva's lead product candidate, MIN-101, is a 5-HT2A/Sigma2 antagonist in Phase 2 development for the treatment of schizophrenia. MIN-101 is thought to be differentiated from conventional antipsychotics as it was developed to be effective against negative symptoms. NERV is also developing MIN-117, an antagonist of 5-HT1A and 5-HTT receptors and both serotonin and dopamine, for major depressive disorder (MDD). NERV believes MIN-117 could be differentiated by fast onset of action and potential to treat patients that have failed previous lines of antidepressants. NERV has two other products in early Phase 1 or preclinical development: MIN-202, an orexin-2 antagonist for primary and secondary insomnia, and MIN-301, an ErbB4 activator for Parkinson's disease.

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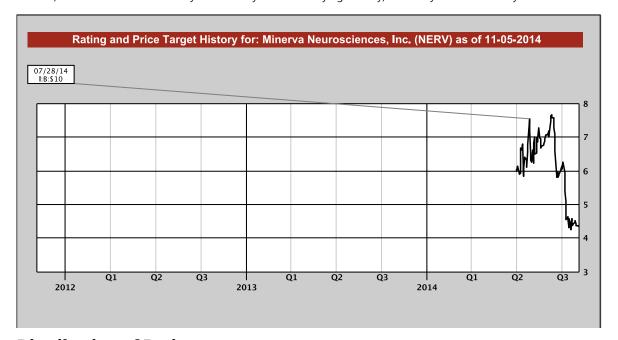
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			IB Serv./Past 12 Mos.			
Rating	Count	Percent	Count	Percent		
BUY	1010	52.12%	264	26.14%		
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