

COMPANY UPDATE

March 18, 2015

Stock Rating:

OUTPERFORM

12-18 mo. Price Target	\$20.00
LOXO - NASDAQ	\$13.99

3-5 Yr. EPS Gr. Rate	NA
52-Wk Range	\$16.45-\$9.90
Shares Outstanding	15.9M
Float	6.5M
Market Capitalization	\$232.7M
Avg. Daily Trading Volume	33,531
Dividend/Div Yield	NA/NM
Book Value	NA
Fiscal Year Ends	Dec
2014E ROE	NA
LT Debt	\$0.0M
Preferred	\$0.0M
Common Equity	\$108M
Convertible Available	No
Trading range since August 1, 2014 IPO.	

EPS Diluted	Q1	Q2	Q3	Q4	Year	Mult.
2014E			(0.68)A	(0.25)	(0.90)	NM
Prior (E)			(0.24)			NM
2015E					(1.10)	NM

HEALTHCARE/BIOTECHNOLOGY

Loxo Oncology

LOXO-101 AACR Abstract - So Far, So Good

SUMMARY

2015 AACR abstracts were released online this afternoon. Loxo's Phase 1a abstract (#4529) provides an initial glimpse into the safety and PK for lead asset and pan-TRK inhibitor LOXO-101. Data is available for 8 patients treated in the dose escalation at 50 mg QD and 100 mg QD. It appears that the initial human PK data reflecting 98% inhibition of TRKA/B/C at peak plasma concentrations indicates Loxo's pre-clinical PK modeling is playing out as anticipated, and possibly better (see below). That said, given the "all-comers" dose escalation and focus on safety/PK in the Phase 1a, we continue to see preliminary Phase 1b data (YE15/1H16) specifically enrolling TRK+ pts as the more relevant driver for the stock.

KEY POINTS

- Early safety looks good. LOXO-101 has been well-tolerated and the MTD has not been reached. Adverse events include 2 patients developing fatigue deemed drug-related but not serious and 2 patients with syncope (fainting) deemed unrelated but serious. It is unclear if the fatigue patients are distinct from the syncope patients.
- Human PK data better than modeled? We took another look at the PK modeling slide Loxo showed on the IPO (Exhibit 1). Modeled peak concentrations for 100mg *BID* appear just shy of TRKA's IC90. However, today's PK data suggest 98% inhibition of TRKA at half that daily dose (100mg *QD*), an interesting positive.
- Efficacy. As expected, the abstract does not contain any response rate data or discuss whether any enrolled patients are TRK+. As we have stated previously, while TRK+ pts are not expected in the Phase 1a, any early TRK+ data at AACR (April 18-22), if positive, could drive earlier than expected upside.
- Phase 1a design. The trial is enrolling advanced solid tumor patients with PD after >1 prior chemotherapy and ECOG PS 0-1. The dose escalation calls for 6 cohorts (N=3-6) with LOXO-101 administered orally in 28-cycles.
- Catalyst recap. 1) LOXO-101 Phase 1a data at the AACR conference (April 18-22), 2) potential proof-of-concept for LOXO-101 in TRK+ pts (YE15/1H16), 3) updates on new pre-clinical programs (2H15), 4) narrow Array collaboration new targets to 4-5 (January 2016), 5) new targets Phase 1 start (1H16).

Stock Price Performance

1 Year Price History for LOXO 16 14 12 10 22 Q3 Q1 8 Created by BlueMatrix

Company Description

Loxo Oncology is developing targeted drugs for the treatment of cancer in genetically defined patient populations. The company's lead product candidate, LOXO-101, is an oral, selective and potent inhibitor of TRK, a family of signaling molecules that appear to play an important role in the development of a range of cancers.

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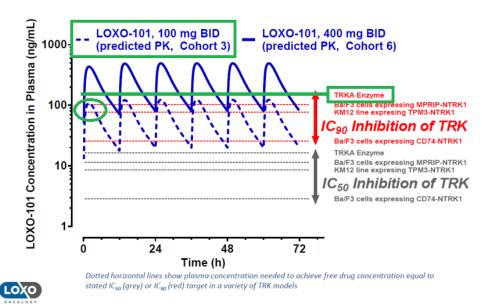
Yigal Nochomovitz, Ph.D. 212 667-8163 Yigal.Nochomovitz@opco.com

Exhibit 1

LOXO-101 PK modeling

PK Modeling in Humans

Predicted Target Coverage Based on Simulation



Source: Loxo reports. Green color added by Oppenheimer Research.

Investment Thesis

Loxo is an early-stage biotechnology company executing a business plan for targeted cancer drugs that benefit from 1) clear precedent for clinical and commercial success, 2) a rapid development path and 3) well-defined chemistry, potency and selectivity around the target of interest (TRK). However, Loxo has yet to generate clinical data. Therefore, the investment thesis relies heavily on a belief that Loxo's targeted approach to the treatment of TRK-translocations will mirror a trajectory for successfully commercialized targeted agents, a prime example being Xalkori. We believe this thesis has merit and provides indirect proof-of-concept that lead asset LOXO-101 should generate enriched efficacy in TRK+ tumors.

Price Target Calculation

We value Loxo using a discounted cash flow (DCF) analysis with a weighted average cost of capital (WACC) of 15% and a 0% terminal growth rate post 2032, generating a price target of \$20 and yielding a terminal value of ~\$68 million. Our valuation framework utilizes a 15% discount rate for pre-commercial stage companies that have not achieved clear Phase 2 proof-of-concept.

Key Risks to Price Target

Key risks to our price target include: 1) Loxo has not generated any clinical data for LOXO-101, and the investment thesis relies entirely on preclinical results, conviction in a novel mechanism, and precedent from approved drugs targeting fusion oncogenes. 2) Limited clinical efficacy for LOXO-101 and/or unacceptable toxicity in Phase 1a/1b may indicate further development is unwarranted. 3) More rapid development and approval of competitive TRK inhibitors (for example, RXDX-101) could pressure LOXO-101's share of the TRK market.

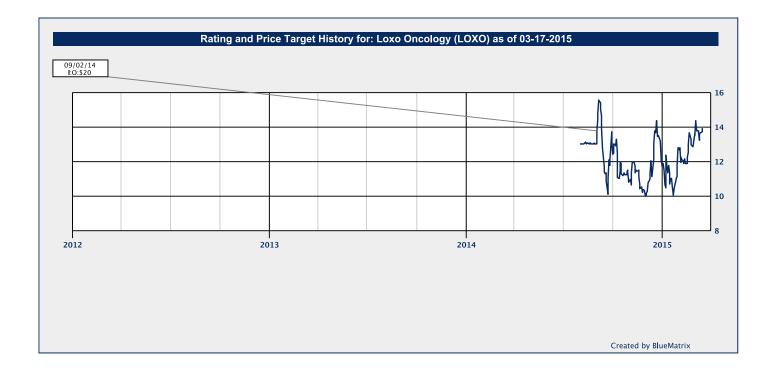
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Distribution of Rating				
		IB Serv/Past 12 Mos.		
Rating	Count	Percent	Count	Percent
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PERFORM [P]	251	43.20	93	37.05
UNDERPERFORM [U]	10	1.72	2	20.00
UNDERPERFORM [U]	10	1.72	2	20.00

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