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### Reason for Report:

Piper Jaffray & Co.

Company Update

Changes	Pre	Current						
Rating			Overweight					
Price Tgt			\$9.00					
FY10E Rev (m	il)		\$0.0					
FY11E Rev (m	il)		\$0.0					
FY10E EPS			(\$1.72)					
FY11E EPS			(\$1.44)					
Price:			\$6.12					
52 Week High:			\$8.55					
52 Week Low:			\$2.82					
12-Month Price	Target:		\$9.00					
Proj EV of \$		nid'11E casi	h					
Shares Out (m			32.8					
Includes recent PIPE								
Market Cap. (m	\$200.7							
Avg Daily Vol (	75							
Book Value/Sh	\$2.14							
Net Cash Per S	\$2.23							
Debt to Total C	0%							
Est LT EPS Gr	NA							
P/E to LT EPS	NA							
Est Next Rep D	02/01/2011							
Fiscal Year End	d:		Dec					
Rev (mil)	2009A	2010E	2011E					
Mar	\$0.0A	\$0.0A	\$0.0E					
Jun	\$0.0A	\$0.0A						
Sep	\$0.0A	\$0.0A	\$0.0E					
Dec	<u>\$0.0A</u>	\$0.0E	<u>\$0.0E</u>					
FY	\$0.0A	\$0.0E	\$0.0E					
CY	\$0.0A	\$0.0E	\$0.0E					
FY RM	NM	NM	NM					
CY RM	NM	NM	NM					
EPS	2009A	2010E	2011E					
Mar	(\$2.57)A	(\$0.83)A	(\$0.42)E					
Jun	(\$2.22)A	(\$0.36)A	(\$0.36)E					

# **Anthera Pharmaceuticals Overweight**

(ANTH - \$6.12)

# **Expect Minimal Delay From Lupus Trial Halting; Buy on Weakness**

### **CONCLUSION:**

Anthera recently halted enrollment and dosing in the Phase IIB PEARL-SC trial of A623 in lupus due to a defect in the vials containing study drug that resulted in cracking. There have been no reports of patient adverse events due to the defective vials. We anticipate a short delay in enrollment and would be buyers on weakness.

- PEARL-SC Trial Halted Due to Vial Defect. Anthera halted enrollment and dosing in the Phase IIB PEARL-SC trial of A-623 in lupus due to a defect in the vials containing study drug that resulted in cracking. There have been no reports of patient adverse events due to the defective vials. We anticipate a short delay with minimal impact to trial timeline and cost. In the worst case scenario, Anthera would need to make all new trial material which would take ~6 months. We reiterate our overweight and would be buyers of ANTH share on any weakness. Management is holding a conference call this evening at 5pm EST to discuss the details further.
- Larger and Longer A-623 Lupus Study. In July, Anthera began the Phase IIb PEARL SC trial of A-623 for the treatment of lupus. PEARL will randomize up to 600 systemic lupus erythmatosus (SLE) patients to 3 doses of A-623 or placebo for 24 weeks on top of standard background therapy. The company has completed a 2nd manufacturing run to supply drug for the trial and will announce a large scale manufacturing agreement soon. The primary endpoint is the SLE responder index used by HGS in the *Benlysta* BLISS studies. PEARL is both larger and longer in our view, dramatically increasing the likelihood of success.
- VISTA-16 Enrolling Patients. Also in July, Anthera initiated the pivotal VISTA-16 trial of varespladib. Anthera has an SPA agreement with the FDA for a single Phase III ACS study comparing 500mg QD varespladib to placebo on top of *Lipitor* for 16 weeks. VISTA-16 will enroll up to 6,500 ACS patients yielding an expected 385 events and is 80% powered to show a 25% improvement in MACE. An analysis will be performed after the first 1,000 patients likely in 1Q:11 and we expect final data by early 2012. Anthera will report additional varespladib data from the Phase IIb FRANCIS study at the AHA meeting in Chicago tomorrow.
- Strong Cash to Reach Value Driving Data. Anthera ended 3Q:10 with a strong cash balance of \$73 million, which we forecast should last into 2012. By this time Anthera should have reported top-line PEARL and VISTA-16 data.

### **INVESTMENT RECOMMENDATION:**

We reiterate our Overweight rating and \$9 price target. We value varespladib at \$288 million and add mid'11E net cash and assuming exercise of the warrants. Anthera holds no debt.

### **RISKS TO ACHIEVEMENT OF TARGET PRICE:**

Risks include clinical, regulatory and commercial. Varespladib and/or A-623 may fail in the clinic. Anthera may require additional cash from the capital markets.

### **COMPANY DESCRIPTION:**

Anthera is a biopharmaceutical company developing varespladib and A-623.

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(\$2.40)A

(\$0.98)A

(\$8.06)A

(\$8.06)A

NM

Quarterly EPS does not add to full year result

(\$0.36)A

(\$0.36)E

(\$1.72)E

(\$1.72)E

NM

(\$0.30)E

(\$0.36)E

(\$1.44)E

(\$1.44)E

NM

Sep

Dec

FY

CY

FY P/E

# Anthera Pharmaceuticals Quarterly Earnings Estimates

(\$ in thousands except per share)

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	1QA	2QA	3QA	4QA	2009A	1QA 1	2QA	3QA	4QE	<u>2010E</u>	1QE	2QE	3QE	4QE	<u>2011E</u>
Total Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Operating Expenses:															
R&D Expense	2,915	2,286	2,526	688	8,415	\$5,242	\$6,438	6,885	10,000	28,565	12,000	10,000	8,000	10,000	40,000
SG&A Expense	<u>846</u>	999	<u>885</u>	<u>695</u>	3,425	1,224	<u>1,510</u>	<u>1,510</u>	2,000	6,244	2,000	2,000	2,000	2,000	8,000
Total Operating Expenses	\$3,761	\$3,286	\$3,411	\$1,383	11,841	\$6,466	\$7,948	\$8,395	\$12,000	34,809	\$14,000	\$12,000	\$10,000	\$12,000	48,000
Operating Loss	(\$3,761)	(\$3,286)	(\$3,411)	(\$1,383)	(\$11,841)	(\$6,466)	(\$7,948)	(\$8,395)	(\$12,000)	(\$34,809)	(\$14,000)	(\$12,000)	(\$10,000)	(\$12,000)	(\$48,000)
Interest and Other Income	13	9	(0)	2	24	3	\$12	62	65	142	55	45	40	35	175
Interest Expense	(37)	(59)	(193)	(96)	(385)	(4,641)	<u>0</u>	<u>0</u>	<u>0</u>	(4,641)	<u>0</u>	<u>0</u>	<u>30</u>	<u>20</u>	<u>50</u>
Total Other Income (Expense)	(24)	(50)	(193)	(94)	(362)	(4,638)	12	62	65	(4,500)	55	45	70	55	225
Pre-Tax Loss	(\$3,785)	(\$3,336)	(\$3,604)	(\$1,477)	(\$12,203)	(\$11,104)	(\$7,936)	(\$8,334)	(\$11,935)	(\$39,309)	(\$13,945)	(\$11,955)	(\$9,930)	(\$11,945)	(\$47,775)
Income Tax Expense	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Loss	(\$3,785)	(\$3,336)	(\$3,604)	(\$1,477)	(\$12,203)	(\$11,104)	(\$7,936)	(\$8,334)	(\$11,935)	(\$39,309)	(\$13,945)	(\$11,955)	(\$9,930)	(\$11,945)	(\$47,775)
Net Loss per Share	(\$2.57)	(\$2.22)	(\$2.40)	(\$0.98)	(\$8.06)	(\$0.83)	(\$0.36)	(\$0.36)	(\$0.36)	(\$1.72)	(\$0.42)	(\$0.36)	(\$0.30)	(\$0.36)	(\$1.44)
Shares Outstanding	1,471	1,500	1,500	1,500	1,514	13,344	22,224	22,964	33,000	22,883	33,100	33,200	33,300	33,500	33,275

Source: Company reports and Piper Jaffray estimates.

Note: CY:09A results include adjusted primary share count excluding preferred stock. As a result, quarterly EPS does not add to full year result.

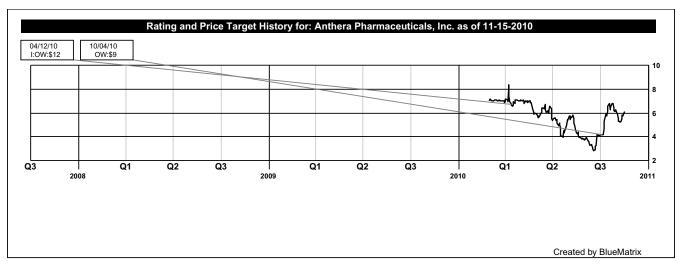
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Anthera Pharmaceuticals, Inc.

<sup>1. 1</sup>Q:10 R&D expense includes \$3.5 million non-cash milestone payment in IPO stock to Lilly and Shinogi.

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Rating	Count	Percent	Count	Percent				
BUY [OW]	301	49.10	64	21.26				
HOLD [N]	265	43.20	28	10.57				
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- Chad J. Messer, Ph.D., Research Analyst

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