

Morningstar Rating	Last Price	Fair Value	Consider Buy	Consider Sell	Uncertainty	Economic Moat	Stewardship Grade	Industry	Sector
*	44.86	20.00	13.00	30.00	High	None	С	Semiconductors	Hardware

Per share prices in USD

# The good times at MEMC won't last forever.

by Andy Ng Stock Analyst Analysts covering this company do not own its stock.

# Thesis Aug. 01, 2008

MEMC has been propelled by a strong pricing environment for silicon wafers, thanks to a supply shortage in the market. However, the firm is one of many players in a commodity industry that has seen its fair share of difficult downturns.

MEMC supplies bare silicon wafers, which are used by chipmakers to fabricate semiconductor chips. According to company estimates, there are fewer than 10 major players in the wafer market. MEMC ranks in the top three, though no single supplier holds a dominant position.

The firm barely avoided bankruptcy during the previous industry downturn after several years of heavy capital spending. It was rescued in 2001, when private-equity firm Texas Pacific Group acquired a 72% stake in the company from E.ON for only \$6 plus the assumption of debt. TPG subsequently strengthened MEMC's balance sheet and returned the firm to profitability. The company has made huge strides in cost-cutting and streamlining operations; it generated free cash flow in each of the past several years.

MEMC is currently benefiting from strong demand and tight supply for wafers, which has increased its profits. Nevertheless, we think industry dynamics will eventually take their toll on MEMC. Wafers are commodity products and are subject to long-term price declines. Chipmakers transition to a larger wafer size about every seven to 10 years, which temporarily stabilizes prices, but there is minimal product differentiation within each product cycle. As a result, the marketplace tends to become flooded with supply over time, which exposes MEMC to mounting price pressures. We think the current strong pricing environment makes it compelling for suppliers to expand wafer manufacturing capacity, and this will bring increased competition and subsequent price erosion. Historically, volume growth of the silicon wafer market has tracked unit shipments of semiconductor devices. We expect the chip industry to remain a long-term driver for overall wafer demand. The emergence of the solar panel market has added a new growth opportunity for the wafer industry. To capitalize on the trend, MEMC has signed 10-year silicon wafer supply agreements with several solar manufacturers, including Suntech and Conergy, that are worth roughly \$15 billion-\$18 billion in total.

MEMC has successfully transformed itself into a topnotch supplier in the wafer market, but we remain concerned about the cyclical pricing environment over the long term, over which MEMC has no control.

# Valuation

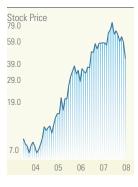
Our fair value estimate for MEMC is \$20 per share. Our model assumes 11% average sales growth during the next five years. This forecast is partly based on wafer unit demand roughly tracking broader shipments in the chip and solar industries. We believe the supply shortage in the wafer market that has been benefiting MEMC will persist for a couple of more years and expect the selling prices of wafers to remain relatively healthy through 2009. However, we believe the firm will face pricing pressures from 2010 forward as continued additions of production capacity throughout the industry alleviate the wafer shortage and actually cause excess supply to flood the market. As a result, we anticipate that operating margins will hover in the low 40s through 2009 but decline to the midteens starting in 2010. We assume some economies of scale in profitability, but margins will ultimately be limited by competitive pricing and the capital-intensity of the wafer business in the long run.

# Risk

MEMC operates in a cyclical and very competitive industry. TPG has reduced its ownership stake in MEMC to 2.1%, compared with 24.8% in August 2006. Nonetheless TPG remains an influential shareholder, with representatives on MEMC's board of directors, and might

Report updated on August 01, 2008. Data and Rating updated as of August 08, 2008.

Currency amounts expressed with "\$" are in U.S. dollars (USD) unless otherwise denoted.



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*	44.86 20.00		13.00	30.00	High	None	С	Semiconductors	Hardware		
	Per share price	es in USD									
Close Competitors	Currend	Currency(Mil) Market Cap		TTM Sales	Oper Income	Net Income	will drive long-term demand for wafers. However, sa				
MEMC Electronic Mate	rials	USD	10,134	2,042	916	662	can be volatile in instability.	the wafer industry be	cause of pricing		
Intel Corporation		USD	136,221	39,945	9,508	7,106	motability.				
Taiwan Semiconductor	Manufacturin	ıgUSD	54,138	10,793	3,848	3,731	Profitability: A ter	mporary supply shorta	ge in the wafer		
Texas Instruments, Inc.		USD	33,742	13,843	3,648	2,782		ed MEMC's profitabili	•		

Morningstar data as of August 08, 2008.

have interests that aren't aligned with those of individual shareholders. Customer concentration is another risk.

### **Bulls Sav**

- MEMC has made an impressive comeback since almost filing for bankruptcy in 2001. Its balance sheet is solid, and it is earning decent margins and generating free cash flow.
- The rapid emergence of the solar industry, combined with unit growth in the semiconductor market, will drive demand for silicon wafers.
- MEMC appears to be regaining some share in the semiconductor wafer market.

#### **Bears Sav**

- Competitor Siltronic recently formed a silicon wafer joint venture with Samsung, a key customer for MEMC. As a result, MEMC could lose a significant portion of its business from Samsung.
- The wafer industry is capital-intensive and often suffers from overcapacity at some point in each product cycle.
- MEMC must compete with a large number of foreign rivals. Some of these overseas rivals are larger conglomerates that can afford to forgo profits for an extended time.

#### **Financial Overview**

Growth: Growth of the semiconductor and solar industries

e wafer past several years. However, we do not expect current business conditions to last, given the ongoing industrywide expansions for wafer production capacity. As additional wafer supply comes online, we believe MEMC will face pricing pressures, causing declines in profitability.

Financial Health: MEMC's balance sheet has improved substantially during the past several years. The firm has \$1.5 billion in cash and investments versus \$857 million in total liabilities on its balance sheet. MEMC has started to use excess cash to repurchase shares in its stock-buyback program.

# **Company Overview**

Profile: MEMC Electronic Materials produces silicon wafers that are the basic material used by chipmakers to fabricate semiconductors. The company operates manufacturing facilities in Europe, Japan, Malaysia, South Korea, Taiwan, and the U.S. Customers include manufacturers of computer memory and microprocessors.

Strategy: MEMC aims to strengthen its market position by maintaining technology leadership and providing customers with top-quality wafers. The firm carries a portfolio of wafers to meet chipmakers' specific needs and markets its products globally with a direct salesforce. MEMC is also focused on minimizing costs and streamlining the firm's global manufacturing infrastructure to maintain its profitability.

Management: Nabeel Gareeb has been president and CEO

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Morningstar Rating L	Last Price	Fair Value	Consider Buy	Consider Sell	Uncertainty	Economic Moat	Stewardship Grade	Industry	Sector			
★ 4	44.86	20.00	13.00	30.00	High	None	С	Semiconductors	Hardware			
– P	Per share price	es in USD										
	since April 2002. Before MEMC, Gareeb served in various											
	roles, including COO, at International Rectifier from 1992											
		to 2002	2. CFO Ken Hai									
	Previously, Hannah was senior vice president of											
	operations at Home Depot. He has also held various											
	positions at Boeing and General Electric. Executive											
	compensation appears reasonable, but none of the senior											
		executives holds a significant stake in the firm. Texas										
		Pacific	Group, former	ly the majority	y shareholde	r, no longer						
		has an	ownership int	erest in MEM	C, but still ha	as two						
		represe	entatives on th	e firm's eight-	-person boar	d and						
		therefo	re can exert c	onsiderable in	fluence on N	/IEMC. The						
		compar	ny had to dela	y its regulator	y filings for f	iscal 2005						
		becaus	e of the restat	ement of final	ncial results							

Morningstar Rating Last Price Fair Value Consider Buy Consider Sell Uncertainty Economic Moat Stewardship Grade Industry

million because of production issues at a manufacturing

facility. We believe it is only a matter of time until the

*	44.86	20.00	13.00	30.00	High	None	С	Semiconductors	Hardware		
	Per share p	rices in USD									
Analyst Notes											
May 06, 2008		MEN	1C's 10 In Li	ne							
		that v rever quart manu durin wafe MEN	were in line v nue of \$501 r ter. MEMC ha ufacturing fac g the quarter r market, prio 1C report soli in of 51.7% a	ad production cilities, which r. Given the su cing remained d profitability.	tations. The ease of 6% f issues at on put a drag of pply shortag strong and a The firm rep	firm posted rom the fourth e of its n revenue es in the silicon again helped	Management said demand for wafers from the semiconductor industry has weakened a bit, while solar wafer business conditions remain strong. Nonetheless, even if overall wafer demand remains strong and grows, the enormous amounts of wafer production capacity comir online over the next several years will be tough on MEMC. We think the current wafer supply shortage will eventually give way to an oversupply situation, which will result in steep price declines for wafers and drastically reduced profitability for MEMC.				
Apr. 23, 2008		MEN	IC Earnings	Preview							
		first-	quarter resul		he firm rece	announce ntly lowered its lion from \$560	MEMC fac business o	fer supply shortage that has des and ultimately gives way conditions. We look forward penings at MEMC and in the	to deteriorating to hearing about the		

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M RNINGSTAR®

Sector

whether the firm is seeing any effects from the slowing

economy.

Morningstar® Stock Report									Д	All pricing da	ta thru 08-0	8-08				Fiscal year-end: December
MEMC Electronic Materia						-R				Sales MilMkt Cap Mil\$2,042\$10,134			<b>ndustry</b> Semicondu	uctors	Sector Hardware	
MEMC Electronic Materials produces silicon wafers that are the basic material used by chipmakers to fabricate					Morning: ★	star Ratin		<b>Last Price</b> \$44.86		<b>air Value</b> 20.00	<b>Un</b> Hiç	<b>certainty</b> gh		E <b>conomic</b> None	Moat	<b>Stewardship Grade</b> C
semiconductors. The company operates manufacturing facilities in Europe, Japan, Malaysia, South Korea, Taiwan, and the U.S. Customers include manufacturers of computer					19.00 2.94	21.63 5.38	24.25 6.25	11.90 1.05	11.50 2.25	14.51 7.00	13.28 7.33	24.27 10.70	48.90 22.17	96.08 39.14	91.45 41.58	Annual Price High Low Recent Splits
memory and microproces	SSOTS.				es, <sub>ելլի</sub>	<sub>Կո</sub> րՈս	րկրող <sub>կ</sub>	111111 111111	ر ارا <sup>نا</sup> م	որդու	հայրեղ	antalle	իդնու	, pitanali <sup>ti</sup>		52 week High/Low \$ 96.08 - 41.58 10 Year High/Low \$ 96.08 - 1.05
501 Pearl Drive (City of O'f St. Peters, MO 63376 Phone: 1 636 474-5000 We		://www.m	emc.com		$\searrow$	$\sim$	$\sim$		$\sim$		~~~	~~~				Bear-Market Rank 2 (10=worst) Trading Volume Million
										linnii	iltittiitti	Julill			1.0	
Growth Rates Compo			5.1/	10.1/	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	YTD	Stock Performance
Grade: B	1 Yr	3 Yr	5 Yr	10 Yr	-44.3	44.1	-20.9	-63.4	113.2	27.1	37.7	67.3	76.5	126.1	-49.3	Total Return %
Revenue % Operating Income %	24.7 52.2	23.2 48.3	22.8 67.3	6.9	-71.0	24.6	-10.8	-50.4	136.6	0.7	28.7	64.3	62.9	122.6	-37.6	+/- Market
Earnings/Share %	121.1	51.7		_	-94.0	-86.8	14.6	-50.2	166.6	-67.5	58.0	54.1	80.1	122.6	-34.2	+/- Industry Dividend Yield %
Dividends %			_	_	344	685	674	247	1480	1991	2754	4898	8701	20274	10134	Market Cap \$Mil
Book Value/Share %	69.2	60.9		-6.2	-											
Stock Total Return %	-21.7	37.7	34.8	16.8	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TTM	Financials
+/- Industry	-2.7	41.6	34.1	15.3	759 -4.2	694 -1.5	872 14.8	618 -8.3	687 25.2	781 29.8	1028 35.9	1107 33.1	1541 44.7	1922 52.1	2042 52.6	Revenue \$Mil Gross Margin %
+/- Market	-8.3	35.7	29.0	15.6	-4.2	-1.5	-12	-o.s -219	25.Z 65	29.0 143	35.9 260	257	44.7 558	52.1 850	52.0 916	Oper Income \$Mil
Profitability Analysis					-43.9	-22.1	-1.4	-35.5	9.5	18.3	25.3	23.2	36.2	44.2	44.9	Operating Margin %
Grade: B	Current	5 Yr Avg	Ind	Mkt	-316	-151	-43	-518	-5	117	226	249	369	826	662	Net Income \$Mil
Return on Equity %	36.6	68.7	6.0	21.8	-7.80	-2.43	-0.62	-3.76	-0.17	0.53	1.02	1.10	1.61	3.56	2.85	Earnings Per Share \$
Return on Assets %	25.4	25.4	3.9	9.0	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Dividends \$
Fixed Asset Turns	2.5	2.8	2.4	7.3	40	62	69	69	129	218	221	226	229	232	231	Shares Mil
Inventory Turns	20.8	8.3	5.1	12.8	9.85	7.74	5.26	-0.29	-0.13	0.94	2.13	3.22	5.25	8.88	9.25	Book Value Per Share \$
Revenue/Employee \$K	378.1	279.1*	312.3	949.5	-34	-103		-25		127	283	321	528		907	Oper Cash Flow \$Mil
Gross Margin %	52.6	39.1	41.2	31.9	-195	-49	-58	-50	-22	-85	-150	-163	-148	-276	-344	Cap Spending \$Mil
Operating Margin %	44.9	29.4	8.4	17.8	-228	-152	-6	-74	65	42	133	158	379	641	564	Free Cash Flow \$Mil
Net Margin %	32.4	25.3	5.1	9.3	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TTM	Profitability
Free Cash Flow/Rev %	27.6	18.1	13.9	0.1	-17.8	-8.7	-2.4	-42.8	-3.7	17.2	26.1	23.1	25.4	35.5	25.4	Return on Assets %
R&D/Rev %	2.0	0.0	_	11.0	-57.6	-36.4	-10.9			138.1	71.1	43.2	39.3	51.6	36.6	Return on Equity %
Financial Position					-41.7	-21.8	-5.0	-83.9	-0.7	14.9	22.0	22.5	24.0	43.0	32.4	Net Margin %
Grade: B		12-07 \$Mil	(	06-08 \$Mil	0.43	0.40	0.48	0.51	1.16	1.15	1.18	1.03	1.06	0.83	0.78	Asset Turnover
Cash		859		1111	4.4	4.0	5.2	_	_	3.8	2.3	1.6	1.5	1.4	1.4	Financial Leverage
Inventories		36		34	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	06-08	Financial Health
Receivables		198 1590		231	41	86	87	42	78	121	175	211	642	1145	1228	Working Capital \$Mil
Current Assets			_	1678	871	870	943	145	161	59	116	35	29	26	25	Long-Term Debt \$Mil
Fixed Assets Intangibles		834		950	399	433	366	-20	-25	194	443	711	1167	2035	2089	Total Equity \$Mil
Total Assets		2887	_	2980	2.18	2.01	2.57	_	_	0.31	0.26	0.05	0.03	0.01	0.01	Debt/Equity
			-		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	TTM	Valuation
Payables Short-Term Debt		244 5		190 6					2002	18.1	13.0	20.2	24.3	24.9	15.8	Price/Earnings
Current Liabilities		444	-	451	_	_				0.9	0.7	1.2	1.4	1.5	0.8	P/E vs. Market
Long-Term Debt		26		25	0.5	1.1	0.7	0.4	1.4	2.7	2.9	4.5	5.8	10.7	5.1	Price/Sales
Total Liabilities		852		892	0.9	1.6	1.8	_	_	10.3	6.2	6.9	7.5	10.0	4.8	Price/Book
			-		_	_	11.6	_	11.3	16.5	10.4	15.4	16.8	22.4	11.5	Price/Cash Flow
Total Equity		2035		2089												

Valuation Analysis				
	Current	5 Yr Avg	Ind	Mkt
Price/Earnings	15.8	20.1	33.8	19.8
Forward P/E	8.7	_	_	14.1
Price/Cash Flow	11.5	16.3	6.9	12.8
Price/Free Cash Flow	18.4	31.7	12.5	22.7
Dividend Yield %			_	2.5
Price/Book	4.8	8.2	7.9	3.9
Price/Sales	5.1	5.3	1.7	2.6
PEG Ratio	0.3	—	_	1.3

Quarterly Results				
Revenue \$Mil	Sep 07	Dec 07	Mar 08	Jun O8
Most Recent Period	472.8	535.9	501.4	531.4
Prior Year Period	407.9	420.6	440.4	472.7
Rev Growth %	Sep 07	Dec 07	Mar 08	Jun 08
Most Recent Period	15.9	27.4	13.9	12.4
Prior Year Period	45.3	38.6	28.9	27.6
Earnings Per Share \$	Sep 07	Dec 07	Mar 08	Jun O8
Most Recent Period	0.65	1.62	-0.18	0.76
Prior Year Period	0.40	0.56	0.58	0.70

Industry Peers by Market Cap									
M	ct Cap \$Mil	Rev \$Mil	P/E	ROE%					
MEMC Electronic Mate	10134	2042	15.8	36.6					
Intel Corporation	136221	39945	20.0	17.8					
Taiwan Semiconductor	54138	10793	13.5	22.8					
Major Fund Holders									
			%	of shares					

\*3Yr Avg data is displayed in place of 5Yr Avg

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# **Morningstar's Approach to Rating Stocks**

#### Our Key Investing Concepts

- Economic Moat
- Discounted Cash Flow
- Discount Rate
  Fair Value
- Fail value
  Uncertainty
- Margin of Safety
- Consider Buying/Consider Selling
- Stewardship Grades

At Morningstar, we evaluate stocks as pieces of a business, not as pieces of paper. We think that purchasing shares of superior businesses at discounts to their intrinsic value and allowing them to compound their value over long periods of time is the surest way to create wealth in the stock market.

We rate stocks 1 through 5 stars, with 5 the best and 1 the worst. Our star rating is based on our analyst's estimate of how much a company's business is worth per share. Our analysts arrive at this "fair value estimate" by forecasting how much excess cash--or "free cash flow"--the firm will generate in the future, and then adjusting the total for timing and risk. Cash generated next year is worth more than cash generated several years down the road, and cash from a stable and consistently profitable business is worth more than cash from a cyclical or unsteady business.

Stocks trading at meaningful discounts to our fair value estimates will receive high star ratings. For high-quality businesses, we require a smaller discount than for mediocre ones, for a simple reason: We have more confidence in our cash-flow forecasts for strong companies, and thus in our value estimates. If a stock's market price is significantly above our fair value estimate, it will receive a low star rating, no matter how wonderful we think the business is. Even the best company is a bad deal if an investor overpays for its shares.

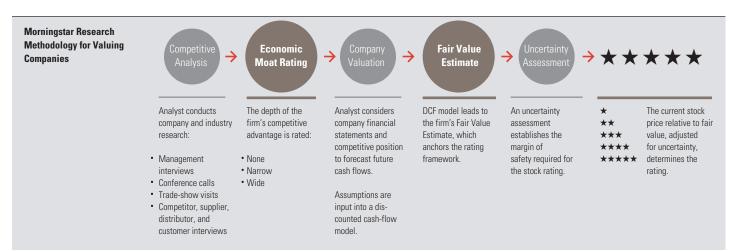
Our fair value estimates don't change very often, but market prices do. So, a stock may gain or lose stars based just on movement in the share price. If we think a stock's fair value is \$50, and the shares decline to \$40 without much change in the value of the business, the star rating will go up. Our estimate of what the business is worth hasn't changed, but the shares are more attractive as an investment at \$40 than they were at \$50.

Because we focus on the long-term value of businesses, rather than short-term movements in stock prices, at times we may appear out of step with the overall stock market. When stocks are high, relatively few will receive our highest rating of 5 stars. But when the market tumbles, many more will likely garner 5 stars. Although you might expect to see more 5-star stocks as the market rises, we find assets more attractive when they're cheap.

We calculate our star ratings nightly after the markets close, and issue them the following business day, which is why the rating date on our reports will always be the previous business day. We update the text of our reports as new information becomes available, usually about once or twice per quarter. That is why you'll see two dates on every Morningstar stock report. Of course, we monitor market events and all of our stocks every business day, so our ratings always reflect our analyst's current opinion.

## **Economic Moat**

This is our assessment of a firm's ability to earn returns consistently above its cost of capital in the future, usually by virtue of some competitive advantage. Competition tends to drive down such economic profits, but companies



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that can earn them for an extended time by creating a competitive advantage possess an economic moat. We see these companies as superior investments.

We're big fans of companies that are low-cost producers, create high switching costs for their customers, or have strong brands or long-lasting patents, because all of these characteristics allow companies to protect their competitive position. For example, Tiffany is far more profitable than a run-of-the-mill jewelry chain because it has a strong brand that creates a moat around its business, allowing it to charge more than competitors.

#### **Discounted Cash Flow**

This is a method for valuing companies that involves projecting the amount of cash a business will generate in the future, subtracting the amount of cash that the company will need to reinvest in its business, and using the result to calculate the worth of the firm. We use this technique to value nearly all of the companies we cover.

#### **Discount Rate**

We use this number to adjust the value of our forecasted cash flows for the risk that they may not materialize. For a profitable company in a steady line of business, we'll use a lower discount rate, also known as "cost of capital," than for a firm in a cyclical business with fierce competition, since there's less risk clouding the firm's future.

#### **Fair Value**

This is the output of our discounted cash-flow valuation models, and is our per-share estimate of a company's intrinsic worth. We adjust our fair values for off-balance sheet liabilities or assets that a firm might have--for example, we deduct from a company's fair value if it has issued a lot of stock options or has an under-funded pension plan. Our fair value estimate differs from a "target price" in two ways. First, it's an estimate of what the business is worth, whereas a price target typically reflects what other investors may pay for the stock. Second, it's a long-term estimate, whereas price targets generally focus on the next two to 12 months.

# Uncertainty

To generate the Morningstar Uncertainty Rating, analysts consider factors such as sales predictability, operating leverage, and financial leverage. Analysts then classify their ability to bound the fair value estimate for the stock into one of several uncertainty levels: Low, Medium, High, Very High, or Extreme. The greater the level of uncertainty, the greater the discount to fair value required before a stock can earn 5 stars, and the greater the premium to fair value before a stock earns a 1-star rating.

## **Margin of Safety**

This is the discount to fair value we would require before recommending a stock. We think it's always prudent to buy stocks for less than they're worth. The margin of safety is like an insurance policy that protects investors from bad news or overly optimistic fair value estimates. We require larger margins of safety for less predictable stocks, and smaller margins of safety for more predictable stocks.

### **Consider Buying/Consider Selling**

The consider buying price is the price at which a stock would be rated 5 stars, and thus the point at which we would consider the stock an extremely attractive purchase. Conversely, consider selling is the price at which a stock would have a 1 star rating, at which point we'd consider the stock overvalued, with low expected returns relative to its risk.

#### **Stewardship Grades**

We evaluate the commitment to shareholders demonstrated by each firm's board and management team by assessing transparency, shareholder friendliness, incentives, and ownership. We aim to identify firms that provide investors with insufficient or potentially misleading financial information, seek to limit the power of minority shareholders, allow management to abuse its position, or which have management incentives that are not aligned with the interests of long-term shareholders. The grades are assigned on an absolute scale--not relative to peers--and can be interpreted as follows: A means "Excellent," B means "Good," C means "Fair," D means "Poor," and F means "Very Poor."

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