

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 OR 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported) May 17, 2005

Vishay Intertechnology, Inc.

(Exact name of registrant as specified in its charter)

Delaware

1-7416

38-1686453

(State or other jurisdiction of incorporation)

(Commission File Number)

(I.R.S. Employer Identification No.)

**63 Lincoln Highway
Malvern, PA 19355**

19355-2143

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code 610-644-1300

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01 – Regulation FD Disclosure

Computational Guidance on Earnings Per Share Estimates

The Registrant frequently receives questions from analysts and shareholders regarding its diluted earnings per share (“EPS”) computation. The information furnished in this Form 8-K provides additional information on the impact of key variables on the EPS computation, including the impact of the issuance of shares in the Siliconix exchange offer and subsequent merger.

Accounting principles require that EPS be computed based on the weighted average shares outstanding (“basic”), and also assuming the issuance of potentially issuable shares (such as those subject to stock options, warrants, convertible notes, etc.) if those potentially issuable shares would reduce EPS (“diluted”).

The number of shares related to options, warrants, and similar instruments included in diluted EPS is based on the “Treasury Stock Method” prescribed in Statement of Financial Accounting Standards (“SFAS”) No. 128. This method assumes a theoretical repurchase of shares using the proceeds of the respective stock option or warrant exercise at a price equal to the issuer’s average stock price during the related earnings period. Accordingly, the number of shares includable in the calculation of diluted EPS in respect of stock options, warrants and similar instruments is dependent on this average stock price and will increase as the average stock price increases.

The number of shares includable in the calculation of diluted EPS in respect of convertible or exchangeable securities is based on the “If Converted” method prescribed in SFAS No. 128. This method assumes the conversion or exchange of these securities for shares of common stock. In determining if convertible or exchangeable securities are dilutive, the interest savings (net of tax) subsequent to an assumed conversion are added back to net earnings. The shares related to a convertible or exchangeable security are included in diluted EPS only if EPS as otherwise calculated is greater than the net interest savings divided by the shares issuable upon exercise or conversion of the instrument (“incremental earnings per share”). Accordingly, the calculation of diluted EPS for these instruments is dependent on the level of net earnings. Each series of convertible or exchangeable securities is considered individually and in sequence, starting with the series having the lowest incremental earnings per share, to determine if its effect is dilutive or anti-dilutive.

The Registrant’s convertible Liquid Yield Option™ Notes (“LYONs”) have a “put” feature that may be settled at the option of the Registrant in common stock, as the Registrant did in June 2004. Having once used this stock-settlement feature, the Registrant must calculate the dilution effect of the LYONs based upon the scenario that is most advantageous to the LYONs holders—that is, the scenario most dilutive to the Registrant—either conversion of the LYONs or a put of the LYONs back to the Registrant in exchange for stock at the average stock price for the related earnings period. Accordingly, determining whether the LYONs are dilutive is dependent on both the level of net earnings, as in the case of all convertible instruments, and the average stock price. As the average stock price increases, the net earnings level at which the LYONs become dilutive increases, but the number of shares included in the computation decreases.

The tables below consider the number of the Registrant's shares currently outstanding; the number and timing of issuance of shares as part of the Siliconix exchange offer and subsequent merger; and the Registrant's stock options, warrants and convertible or exchangeable securities currently outstanding and their exercise and conversion features currently in effect. Changes in these parameters could have a material impact on the calculation of diluted EPS.

The following tables should be read in conjunction with the information on earnings per share in the Registrant's filings on Form 10-Q and Form 10-K. These tables are unaudited and, because they consider the number and timing of issuance of shares as part of the Siliconix exchange offer and subsequent merger, they are not indicative of the shares used in the diluted EPS computation for any prior period. The number of shares to be included in the computation subsequent to the Siliconix transaction will be weighted based on the period the shares were outstanding, and accordingly, the tables below are not indicative of the shares to be used in the quarterly diluted EPS computation for any period subsequent to the second quarter of 2005. The Registrant assumes no duty to revise these tables as a result in changes in the parameters on which they are based or any changes in accounting principles. Also, the presentation is not intended as a forecast of EPS values or share prices of the Registrant's common stock for any period.

This table summarizes approximate quarterly interest savings, net of tax, which would be added back to net earnings (the numerator) assuming conversion or exchange of the Registrant's currently outstanding convertible and exchangeable notes for various combinations of average stock price and quarterly net earnings (in thousands, except for average stock prices, which are in actual dollars):

	\$1	\$10,000	\$15,000	\$20,000	Over \$25,000
\$10.00	\$ —	\$ 700	\$ 1,100	\$ 1,100	\$ 1,100
\$11.00	\$ —	\$ 700	\$ 1,100	\$ 1,100	\$ 1,100
\$12.00	\$ —	\$ —	\$ 1,100	\$ 1,100	\$ 1,100
\$13.00	\$ —	\$ —	\$ 1,100	\$ 1,100	\$ 4,200
\$14.00	\$ —	\$ —	\$ 1,100	\$ 1,100	\$ 4,200
\$15.00	\$ —	\$ —	\$ 1,100	\$ 1,100	\$ 4,200
\$16.00	\$ —	\$ —	\$ 1,100	\$ 1,100	\$ 4,200
\$17.00	\$ —	\$ —	\$ 400	\$ 1,100	\$ 4,200
\$18.00	\$ —	\$ —	\$ 400	\$ 1,100	\$ 4,200
\$19.00	\$ —	\$ —	\$ 400	\$ 1,100	\$ 4,200
\$20.00	\$ —	\$ —	\$ 400	\$ 1,100	\$ 4,200
\$21.00	\$ —	\$ —	\$ 400	\$ 1,100	\$ 4,200

This table summarizes the approximate number of shares to be included in denominator in the calculation of quarterly diluted EPS for various combinations of average stock price and quarterly net earnings (*in thousands, except for average stock prices, which are in actual dollars*):

	\$1	\$10,000	\$15,000	\$20,000	Over \$25,000
\$10.00	177,000	190,000	197,000	197,000	197,000
\$11.00	177,000	189,000	195,000	195,000	195,000
\$12.00	177,000	177,000	194,000	194,000	194,000
\$13.00	177,000	177,000	194,000	194,000	217,000
\$14.00	177,000	177,000	193,000	193,000	217,000
\$15.00	178,000	178,000	193,000	193,000	216,000
\$16.00	178,000	178,000	192,000	192,000	216,000
\$17.00	178,000	178,000	184,000	192,000	216,000
\$18.00	178,000	178,000	184,000	192,000	215,000
\$19.00	178,000	178,000	185,000	192,000	215,000
\$20.00	179,000	179,000	185,000	192,000	215,000
\$21.00	180,000	180,000	186,000	192,000	216,000

Item 8.01 – Other Events

On May 16, 2005, Vishay issued a press release announcing that it had effected a merger of a subsidiary of Vishay with and into Siliconix incorporated, as a result of which Siliconix became a wholly owned subsidiary of Vishay.

A copy of the press release is furnished as Exhibit 99 to this report.

Item 9.01 – Financial Statements and Exhibits

(c) Exhibits

Exhibit No.	Description
99	Press release dated May 16, 2005 announcing the merger of a subsidiary of Vishay with and into Siliconix incorporated.

Signature

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: May 17, 2005

VISHAY INTERTECHNOLOGY, INC.

By: /s/ RICHARD N. GRUBB

Name: **Richard N. Grubb**
Title: **Executive Vice President and Chief Financial Officer**

NEWS RELEASE

Contact: Richard N. Grubb,
Executive Vice President and
Chief Financial Officer or
Peter G. Henrici, Senior Vice
President Investor Relations
610/644-1300

FOR IMMEDIATE RELEASE

Vishay Announces Completion of Siliconix Transaction

MALVERN, PENNSYLVANIA - May 16, 2005 - Vishay Intertechnology, Inc. (NYSE: VSH) today announced that it has effected a merger of a subsidiary of Vishay with and into Siliconix incorporated, as a result of which Siliconix became a wholly owned subsidiary of Vishay. In the merger, each share of Siliconix stock, other than those owned by Vishay and its subsidiaries, was converted into 3.075 shares of Vishay, subject to the rights of Siliconix's remaining stockholders to seek appraisal under Delaware law. Cash was paid in lieu of fractional shares of Vishay.

The merger follows the successful consummation of an exchange offer of Vishay for a majority of the shares of Siliconix that it did not previously own. Following the completion of the exchange offer, Vishay held 95.5% of the outstanding Siliconix shares. Vishay will issue a total of approximately 17,986,000 shares in connection with the exchange offer and subsequent merger.

Vishay Intertechnology, Inc., a Fortune 1,000 Company listed on the NYSE (VSH), is one of the world's largest manufacturers of discrete semiconductors (diodes, rectifiers, transistors, and optoelectronics) and selected ICs, and passive electronic components (resistors, capacitors, inductors, and transducers). Vishay's components can be found in products manufactured in a very broad range of industries worldwide. Vishay is headquartered in Malvern, Pennsylvania, and has operations in 17 countries employing over 25,000 people. Vishay can be found on the Internet at <http://www.vishay.com>.

Siliconix is a leading manufacturer of power MOSFETs, power ICs, analog switches, and multiplexers for computers, cell phones, fixed communications networks, automobiles, and other consumer and industrial electronic systems. With 2004 worldwide sales of \$466.1 million, the Company's facilities include a company-owned Class 1 wafer fab dedicated to the manufacture of power products in Santa Clara, California, and a Class 1 wafer fab located in Itzehoe, Germany utilized under a lease arrangement. The Company's products are also fabricated by subcontractors in Japan, Germany, China, Taiwan, and the United States. Assembly and test facilities include a company-owned facility in Taiwan, a joint venture in Shanghai, China, and subcontractors in the Philippines, China, Taiwan and Israel.

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