

PROXY STATEMENT
ANNUAL MEETING OF SHAREHOLDERS
SEMCO INSTRUMENTS, INC.
May 26, 2010

To Our Shareholders:

Your Board of Directors furnishes this Proxy Statement in connection with its solicitation of your Proxy in the form enclosed to be used at the Company's Annual Meeting of Shareholders to be held on Wednesday, May 26, 2010, at the time and place and for the purposes set forth in the accompanying Notice of Annual Meeting of Shareholders.

We cordially invite you to attend the Annual Meeting. Whether or not you plan to attend, we urge you to date, sign and return your Proxy promptly in the enclosed envelope. You may revoke your Proxy at any time prior to its use at the Annual Meeting by written notice to the Company's Secretary, by executing a Proxy bearing a later date, which Proxy is presented at the Annual Meeting, or by attending the Annual Meeting and voting your shares in person.

ELECTION OF DIRECTORS

The Board of Directors has nominated five persons for Director who, if elected, will serve until the next Annual Meeting. The persons named as proxy holders in the enclosed form of Proxy have advised the Company that it is their intention, unless otherwise directed, to vote the shares at the Annual Meeting represented by duly executed and unrevoked proxies for the election of the nominees named below. Should any of such nominees for any reason become unable to accept nomination or election as a Director, which management does not contemplate, it is intended that the proxy holders will, unless otherwise directed, vote for the election to the Board of such other person(s) as the present Board of Directors may recommend in place of such nominee.

The nominees have supplied the following information pertaining to their ages, background, and principal occupations or employment during recent years.

Michael G. Moore, 52, Director since 1985 and President since 1993. From 1984 until 1988 Mr. Moore served as Vice President, Operations, and from 1988 until 1993 served as Executive Vice President. Mr. Moore holds B.A., M.A., and M.S.B.A. degrees.

Arnold Twersky, 74, Director since 1989. Mr. Twersky has been in practice as a Certified Public Accountant since 1957 and was formerly a Partner with Fox & Company, a national accounting firm. Mr. Twersky holds a B.S. degree from U.C.L.A. and is a member of the American Institute of C.P.A.'s and California Society of C.P.A.'s.

Samuel J. Moore, 54, Director since 2005. Mr. Moore has served as Sales Manager since 1993 and from 1981 through 1992 served as Contracts Administrator. Mr. Moore is a graduate of Los Angeles College with further studies in Contract Administration.

Gerold W. Libby, 67, Director since 2009. Mr. Libby is a partner in the Los Angeles law firm of Zuber & Taillieu LLP, the Company's general outside legal counsel. Mr. Libby holds a B.A. degree from Yale University and a J.D. degree from the New York University School of Law.

Daniel C. deBrauwere, 54, Director since 2009 and from 1989 to 2008. Mr. deBrauwere is a Managing Director with CRG Partners, a national financial consulting and turnaround firm since September 2009. Prior to that he was with BankAmerica Business Capital since 1997, serving as President, Pacific/Southwest Division and Marketing Manager. Before that Mr. deBrauwere served as a Vice President with The CIT Group from 1994 until 1997, and prior to that as a Vice President with Sumitomo Bank of California, with Security Pacific Bank and with Wells Fargo Bank. Mr. deBrauwere holds B.A. and M.B.A. degrees.

OTHER BUSINESS

So far as management is aware, there are no other matters to be brought before the Annual Meeting. Should any other matters come before the Annual Meeting, action may be taken thereon pursuant to the enclosed form of Proxy which confers discretionary authority on the persons named therein with respect to any such matters.