



Press Release

Contact:

Bob Durstenfeld

408-952-8402

bdurstenfeld@raesystems.com

RAE Systems Announces the Promotion of Rudy Mui to Chief Operating Officer and Executive Vice President

SAN JOSE, Calif. – January 13, 2006 – RAE Systems Inc. (AMEX: RAE), a leading global developer and manufacturer of rapidly-deployable, multi-sensor chemical and radiation detection monitors and networks for homeland security and industrial applications, today announced the appointment of Rudy Mui as chief operating officer (COO) and an executive vice president of RAE Systems Inc.

“We are entering a new phase of growth, and Mr. Mui’s experience will provide the global leadership to help us manage corporate efficiency,” said Robert I. Chen, president and CEO of RAE Systems.

Mr. Mui joined the company in December 2003, and has been the company’s vice president of marketing since July 2004. Prior to joining the company, he was vice president of marketing for Metara Incorporated from 2001 to 2003. From 1999 to 2001, Mr. Mui was vice president of marketing for Crossbow Technology, and from 1995 to 1999, director of strategic marketing for LAM Research Corporation.

Mr. Mui received his B.S. in Computer Engineering and B.A. in Economics from the University of Michigan, Ann Arbor, Michigan. Mr. Mui also has an M.B.A. and M.S. in electrical engineering from Santa Clara University, Santa Clara, California.

Mr. Mui will serve as acting vice president of marketing of RAE Systems Inc. until the company appoints a successor.

About RAE Systems

RAE Systems is a leading global developer and manufacturer of rapidly deployable, multi-sensor chemical detection monitors and networks for homeland security and industrial applications. In addition, RAE Systems offers a full line of portable single-sensor chemical and radiation detection products. RAE Systems’ products enable the military and first responders such as firefighters, law enforcement and other emergency management personnel to detect and provide early warning of weapons of mass destruction and other hazardous materials. Industrial applications include the detection of toxic industrial chemicals, volatile organic compounds and petrochemicals. RAE Systems’ products are used by many U.S. government agencies, including the Department of Homeland Security, the Department of Justice, and the Department of State, as well as all branches of the U.S. military, and by numerous city and state

agencies. Our end users also include many of the world's leading corporations in the airline, automotive, computer and oil industries. Our products are used in civilian and government atmospheric monitoring programs in over 50 countries. For more information about RAE Systems, please visit www.RAESystems.com

Safe Harbor Statement

This press release may contain “forward-looking” statements, as that term is used in Section 21E of the Securities Exchange Act of 1934. Forward-looking statements include, without limitation: expressions of “belief,” “anticipation,” or “expectations” of management and statements regarding the Company and its products. Each of these forward-looking statements is subject to risks and uncertainties and readers are cautioned that these forward-looking statements are only predictions and may differ materially from actual future events or results due to a variety of factors. In addition, our forward-looking statements should be considered in the context of the risk factors discussed in our filings with the Securities and Exchange Commission, including but not limited to our annual report on Form 10-K and Form 10-Q filings, available online at <http://www.sec.gov>. All forward-looking statements are based on information available to the company on the date hereof, and the Company assumes no obligation to update such statements.

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