



N Spine Inc.

> **The Company**

N Spine, Inc., is a privately held medical device development company that intends to design, patent and market medical devices related to Posterior Dynamic Stabilization of the Lumbar Spine.

N Spine has bypassed the competition, developing the next generation of dynamic stabilization for the lumbar spine by taking advantage of Minimally Invasive Surgery (MIS) techniques, using posterior pedicle screws fixation. Post-operative hospitalization, recovery time and even the actual time in surgery have all been reduced considerably. The application for Investigational Device Exemption will be completed in 2005, and the company expects to begin clinical trials in the U.S. in 2006.

> **Products**

The company's main product, Nflex™ (Flexible Fixation Device), is the first truly innovative approach to the treatment of spine disease. Nflex™ is a titanium pedicle screw system with a novel flexible rod design that provides dynamic support, not rigid fixation, to the spinal motion segment.

Nflex™ is unique because it is able to flexibly stabilize the spine as needed in all directions, providing more stability, while allowing greater spinal motion. Unlike other known MIS dynamic stabilization products, Nflex™ may be easily modified to achieve greater stability or increase allowable motion in each direction independently. This means that N Spine will be able to offer the same basic product with performance characteristics designed specifically for each major clinical indication.

N Spine possesses a broad intellectual property portfolio for revolutionary technologies. Eight U.S. patent applications for Nflex™ and additional international applications have been filed. The company plans to introduce the Nflex™ product to leading surgeons in the U.S. by mid 2006. Other N Spine products include Nguide™, Ntre™, and Nfix™.

> **Management and Scientific Advisory Board**

SEAN J. NA is CEO, President and co-founder of N Spine, Inc. Mr. Na has achieved more than 25 mergers and acquisitions of public and private companies, both domestic and international. In 1986, he co-founded KeoPyung, a banking, manufacturing and construction conglomerate. Mr. Na grew the company to \$8 billion in assets and \$1.9 billion in revenue before leaving as Vice Chairman in 1998. He moved to the United States as a visiting scholar at Stanford University in 1999, where he met the inventor of Nflex™, Dr. Tae-Ahn Jahng. Mr. Na holds a Master's Degree in Law from Santa Clara University and is a licensed intellectual property attorney.

JUDE PAGANELLI is the COO and has considerable experience in the orthopaedic industry, most recently as Interim President of Facet Solutions, a seed stage spinal implant startup. Prior to Facet, he was VP of Operations at Coapt Systems, an early stage, venture backed plastic surgery and orthopaedic device company.

TAE-AHN JAHNG, M.D., Ph.D. is co-founder of N Spine, Inc. and inventor of Nflex™. Dr. Jahng is Associate Professor of Neurosurgery at Seoul National University. He previously held the position of Director of Spinal Neurosurgery at Wonkwang University School of Medicine in South Korea.

The Scientific Advisory Board consists of: HOWARD S. AN, M.D., Professor of Orthopaedic Surgery and the Morton International Endowed Chair for Spine Research at Rush Medical College, CHOLL KIM, M.D., Ph.D., Assistant Professor of Orthopaedic Surgery at the University of California San Diego, STEVEN GRIFFITH, Ph.D., VP of Scientific Affairs at Anulex, and TAE-HONG LIM, Ph.D., Professor of Biomedical Engineering at the University of Iowa.

> **Opportunity**

There are currently no products approved in the U.S. for posterior dynamic stabilization of the spine.

Approximately 300,000 instrumented spinal fusions were performed in the U.S. in 2004, with the market for these procedures growing at 13% per year. An additional 950,000 estimated non-fusion spinal procedures were performed for back and leg pain. The good news is that Nflex™ is actually a product family, which has the potential to address every one of these clinical indications.

N Spine estimates that the potential U.S. market for posterior dynamic stabilization in these procedures is \$2 billion by the year 2010.

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