APDN at a Glance

- Industry: High Technology
- NASDAQ: APDN, APDNW
- Recent share price: $1.95
- Market capitalization: $ 51.4 M
- Analyst coverage: Maxim Group
- Headquartered in Stony Brook, NY within Long Island's Defense and DNA corridor
- Over 30,000 ft^2 of manufacturing and laboratory facilities
- ISO 17025 2005 Accreditation / ISO 9001 2008 Certification
- Over 60 employees
- Patents: 44 issued, 84 patent applications, 36 trademarks, 13 trademark applications
- Core intellectual property
  - Design DNA to bond to natural and synthetic fibers, embed into industrial raw materials, and adhere to most surfaces.
  - Detect DNA to identify originality, examine provenance, and link criminals to crimes.
- Core vertical industries: Textiles and Apparel, Military and Government, Security and Asset Marking, Printing and Packaging, Pharmaceuticals

Investment Highlights

- Provider of disruptive DNA-based technology solutions applicable to supply chains globally
- Technology validation by leading global companies, government agencies and consumers
  - Demonstrated history of converting pilot projects to commercial deployment
  - World's largest manufacturer of bulk DNA using PCR (polymerase chain reaction)
- Significant pipeline of commercial project opportunities
- Early stages of revenue growth
- Deep management and technical expertise
- Clean balance sheet

Executive Officers

James A. Hayward, Ph.D., Sc.D., Chairman of the Board, President and Chief Executive Officer
Beth Jantzen, CPA, Chief Financial Officer
Judy Murrah, MBA, Chief Information Officer
Ming-Hwa Benjamin Liang, Ph.D., Secretary and Strategic Technology Development Officer

Core Technology

Using biotechnology as a forensic foundation, Applied DNA Sciences creates unique DNA-based security solutions to address the challenges of modern commerce.

What we do…

- ***Secure*** global supply chains from provisioning through end-user purchase
- ***Protect*** industries from counterfeits
- ***Provide*** absolute evidence of stolen goods and link criminals to their crimes

Brand Promise

Applied DNA Sciences makes life real and safe by providing biotechnology-driven solutions to help protect products, brands, entire supply chains, and intellectual property of companies, governments and consumers from theft, counterfeiting, fraud and diversion. Patented botanical DNA solutions can be used to identify, tag, track, and trace products, to help assure authenticity, traceability and quality of products.

Product Line

SigNature® DNA — Custom DNA sequences that can be embedded into a wide range of host carriers.

SigNature® T — A robust, forensic identity marker for textiles that remains present from fiber stage through finished garment.

fiberTyping® — A patented DNA test that can verify original Pima ELS and Upland cotton content present in cotton products.

DNAnet® — A forensic tagging system that can link criminals to crimes.

Backtrac™ — A long-lasting tagging solution containing a plant-based molecular signature. Helps police identify and return lost or stolen items.

Beacon™ — Locked optical markers deliver secure real-time validation inspection capabilities.

SigNify™ — SigNify IF portable DNA reader provides definitive real-time authentication of SigNature DNA in the field.

digitalDNA® — Cloud-based, forensic chain of custody portal platform.

DNA Transfer Systems — Developed for high-volume DNA marking applications with a need for monitoring and control.

Large-Scale DNA Production — PCR-based production of custom DNA sequences for vaccines, diagnostics, bioagriculture and gene therapies.

Applications

Textiles and Apparel: Providing unique technology solutions to assure traceability in textile products from source to shop. SigNature® T is a molecular, plant-based DNA system to help cure ailing supply chains through the implementation of tagging, testing and compliance programs with trusted textile supply chain partners. For premium Pima cotton, fiberTyping® provides a diagnosis on "blended" pima products. Based on patented fiberTyping technology, an enhanced genotyping program to identify specific cultivars located in certain geographies is being developed in collaboration with the US Department of Agriculture.

Microcircuits and Other Electronics: Providing turnkey solutions for all DLA trusted supply chain partners and contractors. With minimal impact to form, fit or function, SigNature DNA can be applied onto or embedded into a virtually limitless range of commodities. Recently completed SBIR and RIF contracts have strengthened our core capabilities to offer supply chain risk management solutions across an expanded range of critical components used in defense, industrial and consumer markets.

Cash and Valuables in Transit: SigNature DNA markers incorporated into cash degradation inks used in the cash-in-transit industry throughout Europe have facilitated the conviction of more than 100 criminals in the UK, with aggregate prison sentences of almost 500 years.

Consumer Asset Marking: SigNature DNA is being used to protect 2 European manufacturers against the theft of automotive parts imported into at least one E.U. country. In the U.S., there are over 100 communities in 5 states participating in a DNA asset marking program. We believe that a market opportunity may exist for our asset marking solutions to protect small and medium-sized businesses, larger enterprises, home owner associations and insurance groups.

Printing and packaging: Our integrated platform of forensic DNA taggants along with optical and digital technologies offers a high level of security and flexibility in a cost-effective and easy-to-use format. Compatible with varnish, ink or toner used in labels and packaging without impacting their quality. We certify our print and packaging resellers to assure end-users of quality, reliability and security in the use of our products.

Diagnostics and Reagents: Producing specific, high-quality DNA sequences with the Triathlon PCR production system, which is well suited to efficiently meet pharmaceutic and diagnostic needs.

Pharma: SigNature DNA has been introduced into pharmaceutical-grade and packaging inks suitable for tablet and packaging marking. SigNature DNA is considered safe as a PCID (Physico-Chemical Identifier); can mark bulk API (Active Pharmaceutical Ingredients). Provides a custom, layered security foundation that promotes patient safety and brand confidence.

Personal Care: SigNature DNA is safe, approved for cosmetic use and can be used to tag and trace cosmetic grade raw materials and finished products. SigNature DNA markers are botanically-derived and non-GMO.

Food and Beverages: We operate under ISO 9001:2008 certification and provide plant-DNA based security and authentication solutions that help protect brands and their supply chains. SigNature DNA helps ensure transparent identification and tracking of branded products, helping to maintain supply chain integrity and security in the battle against counterfeit foods and beverages.

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