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ProtoKinetix, Inc.
Form 10-K
March 09, 2018

U. S. SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2017

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number: 000-32917

PROTOKINETIX, INCORPORATED
(Name of small business issuer as specified in its charter)

Nevada 94-3355026
(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification No.)

412 Mulberry Street
Marietta, Ohio 45750
(Address of principal executive offices, including
zip code)

Registrant's telephone number, including area code: **304-299-5070**
Securities registered pursuant to Section 12(b) of the Act: **None**
Securities registered pursuant to Section 12(g) of the Act: **\$.0000053 par value common stock**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act:
Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act: Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T

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(§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Securities Exchange Act of 1934.

Large accelerated filer	Accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company)	Smaller reporting company
Emerging growth company	

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Securities Exchange Act of 1934). Yes No

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant was approximately \$ 13,337,413 based upon the closing price of our common stock which was \$0.074 as of June 30, 2017, the last business day of the Company's most recently completed second fiscal quarter. Shares of common stock held by each officer and director and by each person or group who owns 10% or more of the outstanding common stock amounting to shares have been excluded in that such persons or groups may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of March 8, 2018, there were 254,711,673 shares of our common stock that were issued and outstanding.

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PART I

ITEM 1. BUSINESS

ProtoKinetix, Incorporated ("ProtoKinetix," "we," "us," "our," or the "Company") is a research and development stage bio-technology company focused on scientific medical research of AFGPs (Anti-Freeze Glycoproteins) or anti-aging glycoproteins, trademarked as AAGPs™. The Company has recently been in the process of directing major efforts to the practical side of commercial validation. The commercial applications for AAGPs™ in large markets such as targeted health care solutions are numerous, and ProtoKinetix is currently working with researchers, business leaders and advisors and commercial entities to bring AAGP™ to market.

ProtoKinetix was incorporated as RJV Network, Inc. under the laws of the State of Nevada on December 23, 1999 for the primary purpose of developing an internet-based listing site that would provide detailed commercial real estate property listings and related data. In July 2003, the Company entered into an assignment of license agreement with BioKinetix Research, Incorporated for the assignment of rights relating to proprietary technologies of BioKinetix Research, Incorporated for the creation and commercialization of "superantibodies." On July 8, 2003, the Company changed its name to "ProtoKinetix, Incorporated."

The Company's executive (or corporate) offices are located at 412 Mulberry Street, Marietta, Ohio 45750. Our telephone number is (304) 299-5070 and our website is www.protokinetix.com.

Cautionary Note Regarding Forward-Looking Statements

The information discussed in this Annual Report on Form 10-K for the fiscal year ended December 31, 2017 as well as some statements in press releases and some oral statements of the Company's officers during presentations about the Company include "forward looking statements" within the meaning of Section 27A of the Securities Act of 1933 (the "Securities Act") and Section 21E of the Securities Exchange Act of 1934 (the "Exchange Act"). All statements, other than statements of historical facts, included herein and therein concerning, among other things, planned capital expenditures, future cash flows and borrowings, pursuit of potential acquisition opportunities, our financial position, business strategy and other plans and objectives for future operations, are forward looking statements. These forward looking statements are identified by their use of terms and phrases such as "may," "expect," "estimate," "project," "plan," "believe," "intend," "achievable," "anticipate," "will," "continue," "potential," "should," "could," and similar terms and phrases. Although we believe that the expectations reflected in these forward looking statements are reasonable, they do involve certain assumptions, risks and uncertainties and are not (and should not considered to be) guarantees of future performance. Our results could differ materially from those anticipated in these forward looking statements as a result of certain factors, including, among others:

- Our capital requirements and the uncertainty of being able to obtain additional funding on terms acceptable to us;
 - Our plans to develop and commercialize products from the AAGP™ molecule;
- Ongoing testing of the AAGP™ molecule;
- Our intellectual property position;
- Our commercialization, marketing and manufacturing capabilities and strategy;
- Our ability to retain key members of our senior management and key scientific consultants;
- The effects of competition;
- Our potential tax liabilities resulting from conducting business in the United States and Canada;

• The effect of further sales or issuances of our common stock and the price and volume volatility of our common stock; and

• Our common stock's limited trading history.

Finally, our future results will depend upon various other risks and uncertainties, including, but not limited to, those detailed in the section entitled "Risk Factors" included elsewhere in this Annual Report. All forward looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by the cautionary statements in this section and elsewhere in this Annual Report. Other than as required under securities laws, we do not assume a duty to update these forward looking statements, whether as a result of new information, subsequent events or circumstances, changes in expectations or otherwise.

BACKGROUND

Native AFGP Compound

AFGP (Anti-Freeze Glycoprotein) is found in nature as a compound produced by some fish, insects, reptiles, bacteria and plants that enable survival in freezing temperatures.

One of the many accomplishments from pioneering research of the U.S. Antarctic Program was the discovery, in the early sixties, that fish living year-long in subzero temperature are extremely resistant to freezing. The substances that prevent these fish from freezing were isolated, characterized and designated as AFGP. Various kinds of AFGP were isolated from many species of fishes, and in some amphibians, plants and insects. All of the AFGPs share a common characteristic that prevents ice crystals from growing and connecting to each other. Research has also confirmed a cell membrane stabilizing characteristic of native AFGP.

There has been much scientific research done in an attempt to synthetically replicate AFGPs in research institutions because the protective properties of AFGPs could have commercial applications, primarily in food and crop preservation at freezing temperatures. The native antifreeze glycoproteins are very large molecules that are often made up of a repeating series of smaller molecules, glycoproteins. Glycoproteins are often very biologically active, but they are inherently unstable. The oxygen-glycosidic link is readily cleaved by glycosidases, resulting in a low bio-availability of these glycoconjugate based molecules.

Scientific research prior to AAGP™ has focused on building a stable and more efficient compound with a strong bond.

AAGP™ – The Core Technology of ProtoKinetix

AAGP™ Invention

Dr. Geraldine Castelot-Deliencourt, along with Dr. Jean-Charles Quirion at the Research Institute of Organic Chemistry in Rouen, France, developed a patented process to stabilize the oxygen-glycosidic bond in these sugar based molecules. This patented process replaces the weaker oxygen bond with a C-F₂ mimetic. The resultant molecules are biologically active and stable over a pH range of 2 to 13. They are not broken down by glycosidases.

AAGP™ Toxicity Tests

Tests have shown that cells exposed to AAGP™ at low and high concentrations have remained viable. A common viability test used on cell cultures using trypan blue dye exclusion method has been used to show AAGP™ non-toxicity.

AAGP™ Stability Tests

AAGP™ molecules have remained stable when subjected to three tests:

1. pH ranging from a strong acid level of 1.8 (stronger than stomach acid) to a strong alkali level of 13.8. (the pH scale is calibrated from 1, highly acidic, to 14, highly alkali);
2. Enzymatic action using protease, which targets the amino acid bonds, and glycosidase, which targets the amino acid bonds, and glycosidase, which targets the sugar molecules; and
3. Temperatures ranging from -196°C (cryopreservation) to +37°C (body temperature).

Stress Tests on 12 Different Cell Lines

Cell lines are selected for their high level of sensitivity. Cell lines are also selected for their potential role in adding value in medical applications, enhancing health and extending life. All tests are designed to explore how cells from different cell lines act biologically in the presence of AAGP™ when subjected to health and life threatening inflammatory stress conditions and agents.

Cell Lines Tested

§ Stem cells (human) § Adult skin fibroblast cells
§ Whole blood cells § Heart cells (cardiac myocytes)
§ Blood Platelet cells § Liver cells (hepatocytes)
§ Heart tissue § Embryonic skin fibroblast cells
§ HeLa (cancer) cells § Islet cells (pancreatic)
§ Kidney (vero) cells § Stem cells (mouse)

Stress Conditions and Agents

Temperature

§ temperatures ranging from -80° C to +37° C

UV-C Radiation

§ harsh sterilizing radiation
§ 254 nanometer wavelength

Oxidation

§ hydrogen peroxide (H₂O₂)
§ powerful oxidant

Starvation

§ serum free culture media
§ food/growth/nutrients factors (fetal bovine serum) withheld

Inflammation

§ Interleukin 1 Beta, a standard agent for stimulating inflammation in cell testing

Nonclinical Efficacy Testing (Human Islets)

For the last five years, AAGP™ testing has been conducted pursuant to a comprehensive transplantation testing program in conjunction with the University of Alberta transplant research team. The Company entered into a consulting agreement in May 2015 with Dr. James Shapiro to collaborate with the James Shapiro Laboratory at the University of Alberta in Edmonton, Alberta, Canada. Dr. Shapiro directs the largest clinical islet transplantation program in the world. Dr. Shapiro and his team have conducted extensive testing with our AAGP™ molecule using human islet cells in transplantation, investigating its effect on engraftment, insulin production, protective effect against anti-rejection drugs and investigation of the mechanism of action. The results provided consistent encouragement to continue testing to develop protocols that can be applied to transplantation medicine. In December of 2016, the Governors of the University of Alberta submitted an Investigational Testing Authorization Application To Health Canada to evaluate the safety and efficacy of transplantation of AAGP™ treated human islets as an addition to the already established Edmonton Protocol for the treatment of Type 1 Diabetes.

Additional studies will be expanded to include whole organ transplantation and other cell therapies used in regenerative medicine.

AAGP™ testing is conducted to international standards in outsourced research laboratories in North America and Europe. All tests are designed to explore both the safety and effectiveness of AAGP™ when challenged to enhance the health and extend the life of cells.

Allogeneic transplantation is the transplanting of cells, tissues or organs from the same species, but from a donor different than the recipient. Serious issues that have to be addressed are the engraftment of the transplanted organ or cells and the subsequent protection against the immune rejection of the foreign organ or cells. The protection, in the form of anti-rejection drugs, is toxic and causes damage to the graft. AAGP™ has been shown in these nonclinical studies to increase engraftment and reduce the toxicity damage.

Dr. Shapiro and his team are developing further testing based on three primary activities:

The ongoing testing and refinement of cellular transplantation using human islet cells as the demonstrated model.

1. In particular, AAGP™ may provide powerful protection against hostile agents that severely inhibit engraftment success. Cell therapies are currently being developed in the industry around the world for the treatment of spinal cord injury, damaged heart tissue, stroke, diabetes as well as many other conditions.

2. Human organ preservation. The program will assess the effect of AAGP™ in extending the transplant viability of donor organs. The Canadian National Transplant Research Program is a major national initiative involving the Federal Institutes of Health, all Provinces and the private sector (see <http://www.cntrp.ca/>). The first testing will be conducted on livers to determine whether AAGP™ can extend the ex-vivo functionality of the organ.

3. Auto immune disease. This class of diseases occur where the body's immune system starts to attack healthy cells and organs. Diseases in this category include, rheumatoid arthritis, multiple sclerosis and Type 1 diabetes. Using the Non Obese Diabetic (NOD) mice as a model, the Edmonton team will be specifically assessing the potentially protective effect of AAGP™ against the immune system attacks against the islet cells in the pancreas.

The Governors of the University of Alberta submitted an Investigator Sponsored Clinical Trial Application to Health Canada. This trial will be conducted by Dr. Shapiro and his team at the University of Alberta on the well-established, Edmonton Protocol used for treatment of Type 1 Diabetes through islet cell transplants. Subsequent to December 31, 2016, the Investigator Sponsored Clinical Trial Application was approved by Health Canada. In preparation for the Phase 1 / 2 clinical trials as well as for the Clinical Trial Application, ProtoKinetix has:

- Completed the production of AAGP™ under strict GMP (Good Manufacturing Practice) standards as required by Health Canada and US FDA (United States Food and Drug Administration) for human use;
- Completed the validated sterilization and vialing of AAGP™ to become the drug product, designated PKX-001, that will be used in the clinical trials at the University of Alberta.
- Completed stability tests on AAGP™ at different temperature ranges.
- Completed genotoxicity studies under GLP (Good Laboratory Practice) at ITR Laboratories Canada, Inc..
- Completed carryover studies, to comply with the clinical test protocols, at BRI Pharmaceutical Research, Inc..
- Completed PK (Pharmacokinetics) studies at BRI Pharmaceutical Research, Inc. in Vancouver.

Nonclinical Efficacy Testing (Neuronal Retinal Cells)

During the year ended December 31, 2016, ProtoKinetix entered into a Collaborative Research Agreement with the University of British Columbia, under the guidance of Dr. Gregory-Evans, to commence testing of neuronal retinal cells in living tissue for the treatment of Macular Degeneration. AAGP™ has been tested previously in tissue culture in the lab and was found to improve the survival of cells. Dr. Gregory-Evans is taking those results and applying them to living tissue. He has established a new type of model for retinal degeneration in rabbits and is currently working on injecting neuronal stem cells plus AAGP™ to test for long term improvements in cell survival and integration into the retina that should ultimately lead to vision restoration in the animals. Project to date has shown very positive results. Final testing on this project estimated to be March 2018. Results will be evaluated. Researchers believe they will send the results to a peer review by May, 2018.

AAGP™ Commercial Applications

The extent of the value of the ProtoKinetix family of AAGPs™ is subject to investigation by commercial entities specializing in regenerative medicine, cellular and tissue therapies, organ transplantation, trauma, blood product banking, and anti-inflammation. The Company is targeting these entities in furtherance of product development.

In an ongoing collaborative project with Proactive Immune Sciences, we are testing AAGP™ in Immune Cell Cryopreservation Recovery. Results to date have been very encouraging. We are hoping to prove the functionality of cryopreserved immune cells increases with the addition of AAGP™ on the immune cell cryopreservation protocols used by Proactive Immune Sciences. Testing is ongoing. Preliminary results have been received with final results due April.

Health Care

Acute medical problems are increasingly reliant on, and benefit from, solutions that can deal with the fundamental factors of inflammation and oxidation. Both are well-known causes of life-threatening conditions and diseases, and accelerated aging. In addition, many acute medical problems are benefiting from cell therapies and transplantation of cells, tissues and time sensitive organs.

Health Care Applications of AAGP™ fall into two main categories: (i) harvesting, storage and transplanting cells, tissues and organs; and (ii) treatments for conditions and diseases caused by stress factors, including UV radiation, oxidation and inflammation. These are all areas that expand into many sub-categories of existing and future health care solutions.

AAGP™ continues to receive exposure in the industry; it was presented at the Congress of the International Pancreas and Islet Transplant Association in Melbourne, Australia in November, 2015. Currently, researchers from the University of Alberta's Faculty have completed a peer review and have been published in the prestigious, American Diabetes Association's Journal: Diabetes.

Patents

On or about January 5, 2015, the Company entered into an Assignment of Patents and Patent Application (the "Patent Assignment") between the Company and Institut National des Sciences Appliquées de Rouen ("INSA") for the assignment of certain patents and all rights associated therewith (the "Patents"). The Company and INSA had previously entered into a licensing agreement for the Patents in August 2004. The Patent Assignment transferred all of the Patents and rights associated therewith to the Company upon payment to INSA of the sum of 25,000 Euros.

Through this assignment, ProtoKinetix is now the sole owner of all issued patents of the "Gem difluorinated C-glycopeptides, their preparation and their use for the preservation of biological materials and/or in cryosurgery" family, and all the rights associated therewith. Importantly, this family includes issued patents in Canada (Patent No. CA2,558,801), England, France, and Germany (Patent No. EP1,817,329) and the United States (Patent No.

US\$8,394,362).

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On or about April 8, 2015, ProtoKinetix entered into a Royalty Agreement (the "Agreement") between the Company and the Governors of the University of Alberta ("UAB") for the assignment of UAB's portion of certain patent applications and all rights associated therewith (the "Patent Rights"). The Agreement also grants UAB a royalty of 5% of the gross revenue from the assignment, manufacturing, sale, distribution, or licensing of the Patent Rights and any commercial products generated from the Patent Rights. The Company had a now expired irrevocable option to purchase the royalty for CAD \$5,000,000 (approximately US \$4,000,000) for two years from the earlier of September 1, 2015 or the first date UAB publishes its research related to the Patent Rights. UAB published its research related to the Patent Rights on November 18, 2015. The Company's option to purchase the royalty from UAB expired on September 1, 2017.

Through this assignment, the Company has gained UAB's portion of US provisional patent application no. 62/007,626, and International Patent Application no. PCT/CA2015/050509, and corresponding patent applications filed in Australia, Canada, China, Europe, India, Japan, Korea and New Zealand, as well as U.S. Patent Application no. US 14/728,535, all of which claim priority from said provisional patent application related to the use of anti-aging glycopeptides to enhance beta cell health, survival and improve transplant outcomes.

On or about April 22, 2015, ProtoKinetix entered into a Technology Transfer Agreement with Grant Young for the assignment of Mr. Young's portion of certain patent applications and all rights associated therewith. In exchange for these rights, Mr. Young was paid \$10,000 in cash and a five-year warrant to purchase 6,000,000 shares of the Company's common stock at an exercise price of \$0.10 per share.

Through this assignment, the Company has gained Mr. Young's portion of US provisional patent application no. 62/007,626 and applications claiming priority therefrom as well as patent issuing therefrom, related to the use of anti-aging glycopeptides to enhance beta cell health, survival and improve transplant outcomes.

On or about May 20, 2016, Grant Young assigned his intellectual property rights associated with US provisional patent application no. 62/287,657, and future applications to be derived therefrom to ProtoKinetix, thus gaining Mr. Young's rights to inventions related to the use of anti-aging glycopeptides to enhance survival of neurosensory precursor cells, and all patents issuing from and claiming priority to such application. These patent rights secure, amongst other things, key intellectual property rights to the Company's use of the AAGP™ lead compound in regenerative medicine.

The patents from INSA and patent rights from UAB and Mr. Young secure, amongst other things, key intellectual property rights to the Company's use of the AAGP™ lead compound in regenerative medicine.

Consistent with our agreements with the licensors of various technologies we license, we have no finished commercial product or products, and have received no FDA approvals for any product or diagnostic procedures. We are focused on the research and development of one lead compound known as AAGP™.

Trademarks

We filed a trademark application with the United States Patent & Trademark Office on September 15, 2005 with a registration date of August 7, 2007. The application was subsequently cancelled on March 14, 2014 because we did not file a renewal declaration. We filed a new application for registration of the mark and received approval of registration on November 7, 2017.

Subject to our available financial resources, our intellectual property strategy is to continue testing of the AAGP™ lead compound and develop marketable applications of the compound.

Trade Secrets and Know-How

The Company has developed a substantial body of trade secrets and know-how relating to the development, use and manufacture of AAGP™, including but not limited to the optimization of materials for efforts, and how to maximize sensitivity, speed-to-result, specificity, stability, purity and reproducibility.

Competition

The markets that the Company is focusing on are multi-billion dollar international industries which are intensely competitive. Many of the Company's competitors are substantially larger and have greater financial, research, manufacturing, and marketing resources.

Industry competition in general is based on the following:

- § Scientific and technological capability;
- § Proprietary know-how;
- § The ability to develop and market products and processes;
- § The ability to obtain FDA or other required regulatory approvals;
- § The ability to manufacture products that meet applicable FDA requirements, (i.e. FDA's Quality System Regulations) see also Governmental Regulation section;
- § Access to adequate capital;
- § The ability to attract and retain qualified personnel; and
- § The availability of patent protection.

The Company's ability to develop its research is in large measure dependent on having sufficient and additional resources and/or collaborative relationships.

The Company's access to capital is more challenging, relative to most of its competitors. This is a competitive disadvantage. The Company believes however that its access to capital may increase as it gets closer to the development of a commercially viable product.

The Company believes that its research has enabled it to attract and retain qualified consultants. Because of the greater financial resources of many of its competitors, the Company may not be able to complete effectively for the same individuals to the extent that a competitor uses its substantial resources to attract any such individuals.

Governmental Regulation

The Company's AAGPs™ have commercial applications in markets and circumstances that fall under government regulations ranging from none to limited to extensive.

Although there is no such immediate need to make any regulatory filing in the United States, the Company has limited or no experience with regard to obtaining FDA or other required regulatory approvals. In February 2015, the Company appointed Dr. Julia Levy to its Business and Scientific Advisory Board and intends to retain the services of additional appropriately experienced consultants. For this reason, should our research efforts continue to show promise, we will need to hire consultants to assist the Company with such governmental regulations.

As the Company continues to conduct research and testing programs, in collaboration with commercial entities, to expand and confirm the potential medical applications of AAGP™ in a number of fields, including regenerative medicine, cell therapy, blood products, and transplants, the Company intends to utilize the regulatory expertise of others, whether they are consultants or commercial entities involved on collaborative development programs with the Company.

The following discussion relates to factors that may come into play when and if the Company has a commercially viable product in an area which requires regulatory approval. These products may be regulated by the European regulatory agencies, FDA, U.S. Department of Agriculture, certain state and local agencies, and/or comparable regulatory bodies in other countries (collectively, these agencies shall be referred to as the "Agencies"). Government

regulation affects almost all aspects of development, production, and marketing, including product testing, authorizations to market, labeling, promotion, manufacturing, and record keeping. The products regulated by FDA and U.S. Department of Agriculture require some form of action by such agency before they can be marketed in the United States, and, after approval or clearance, the products must continue to comply with other FDA requirements applicable to marketed products. Both before and after approval or clearance, failure to comply with the FDA's requirements can lead to significant penalties. The Company's proposed AAGP™ products will require government regulatory approval as a biologic agent. Such regulatory approval will be granted only after the appropriate preclinical and clinical studies are conducted to confirm efficacy and safety.

Every company that manufactures biologic products or medical devices distributed in the United States must comply with the FDA's Quality System Regulations. These regulations govern the manufacturing process, including design, manufacture, testing, release, packaging, distribution, documentation, and purchasing. Compliance with the Quality System Regulations is required before the FDA will approve an application. These requirements also apply to marketed products. Companies are also subject to other post-market and general requirements, including compliance with restrictions imposed on marketed products, compliance with promotional standards, record keeping, and reporting of certain adverse reactions or events. The FDA regularly inspects companies to determine compliance with the Quality System Regulations and other post-approval requirements. Failure to comply with statutory requirements and the FDA's regulations can lead to substantial penalties, including monetary penalties, injunctions, product recalls, seizure of products, and criminal prosecution.

The Clinical Laboratory Improvement Act of 1988 prohibits laboratories from performing in vitro tests for the purpose of providing information for the diagnosis, prevention or treatment of any disease or impairment of, or the assessment of, the health of human beings unless there is in effect for such laboratories a certificate issued by the U.S. Department of Health and Human Services applicable to the category of examination or procedure performed. Although a certificate is not required for ProtoKinetix, the Company considers the applicability of the requirements of the Clinical Laboratory Improvement Act in the potential design and development of its products.

The Company is also subject to regulations in foreign countries governing products, human clinical trials and marketing, and may need to obtain approval or evaluations by international public health agencies, such as the World Health Organization, in order to sell products in certain countries. Approval processes vary from country to country, and the length of time required for approval or to obtain other clearances may in some cases be longer than that required for U.S. governmental approvals. The extent of potentially adverse governmental regulation affecting ProtoKinetix that might arise from future legislative or administrative action cannot be predicted.

Research and Development

Our business depends on our ability to sponsor research and development activities. For the year ended December 31, 2016, the Company incurred total research and development expenses of \$450,899. For the year ended December 31, 2017, the Company incurred total research and development expenses of \$296,515. In order to reach the Company's goals of developing a marketable product, we will need to increase the funding of our research and development activities which at this time is limited by our ability to raise money to fund the Company.

Environmental Laws

To date, the Company has not encountered any costs relating to compliance with any environmental laws.

Employees

To date, the Company does not have any employees. The Company's President and Chief Executive Officer and the Chief Financial Officer are both engaged as consultants to the Company.

ITEM 1A. RISK FACTORS

The Company's securities are highly speculative and involve a high degree of risk, including among other items the risk factors described below. The below risk factors are intended to generally describe certain risks that could materially affect the Company and its current business operations and activities.

You should carefully consider the risks described below and elsewhere herein in connection with any decision whether to acquire, hold or sell the Company's securities. If any of the contingencies discussed in the following paragraphs or other materially adverse events actually occur, the business, financial condition and results of operations could be materially and adversely affected. In such case, the trading price of our common stock could decline, and you could lose all or a significant part of your investment.

Our Company has a lack of operating history and lack of revenues from operations. Our Company has no revenues and very limited operating history. As of the date of this Annual Report, our most significant assets are cash and our intellectual property. Our ability to successfully generate revenues from our intellectual property is dependent on a number of factors, including availability of funds to complete development efforts, to adequately test and refine our products, and to commercialize our products. There can be no assurance that we will not encounter setbacks with our products, or that funding will be sufficient to bring our products to the point of commercialization.

We are dependent on our key personnel, and the loss of any could adversely affect our business. We depend on the continued performance of the members of our management team and our Business and Scientific Advisory Board who have contributed significantly to the expertise of our team and the position of our business. If we lose the services of members of our management teams, and are unable to locate a suitable replacement in a timely manner, it could have a material adverse effect on our business. We do not expect to obtain key man life insurance for any members of management in the foreseeable future.

We may experience difficulty implementing our business plan. Our business plan is to continue with the development of the Company's intellectual property and to develop a product for sale commercially. We may require additional capital in order to develop our products for sale commercially. There can be no assurance that we would be able to obtain additional capital on reasonable terms, or at all.

We have been and expect to be significantly dependent on our collaborative agreements for the research, development and testing of AAGP™, which exposes us to the risk of reliance on the performance of third parties. In conducting our research and development activities, we currently rely, and expect to continue to rely, on numerous collaborative agreements with third parties such as contract research organizations, commercial partners, universities, governmental agencies and not-for-profit organizations for both strategic and financial resources. The loss of, or failure to perform by us or our partners (who are subject to regulatory, competitive and other risks) under any applicable agreements or arrangements, or our failure to secure additional agreements for our product candidates, would substantially disrupt or delay our research and development and commercialization activities. Any such loss would likely increase our expenses and materially harm our business, financial condition and results of operations.

We may have difficulty raising any needed additional capital. We may have difficulty raising needed capital in the future as a result of, among other factors, our lack of revenues from operations, as well as the inherent business risks associated with our Company and present and future market conditions. Our business currently generates no revenue from operations. We will likely require additional funds to conduct research and development, establish and conduct non-clinical and clinical trials, secure clinical and commercial-scale manufacturing arrangements and provide for marketing and distribution. If adequate funds are unavailable, we may be required to delay, reduce the scope of or eliminate one or more of our research, development or commercialization programs, product launches or marketing efforts, any of which may materially harm our business, financial condition and results of operations.

We are a research and product development stage company that has not yet developed or sold any products. To date, we have not yet developed nor marketed a product. Ongoing testing of the AAGP™ molecule with three amino acids joined to a monosaccharide by a gemdifluoride bond continues to show that there is significant promise in the field of medicine of preserving cells, tissue and organs from various stresses. Tests have confirmed that the AAGP™ molecule improves the harvest of cells from cryopreservation by 30% to 120%. We believe there is a market for AAGP™ to preserve cells, particularly various stem cells, and we will continue testing with potential customers. At the same time, we are taking steps to improve the manufacturing process to reduce costs and improve purity and biochemical activity.

Even if we develop product candidates which obtain regulatory approval they may never achieve market acceptance or commercial success. Even if we develop products and obtain FDA or other regulatory approvals, our products may not achieve market acceptance among physicians, patients and third party payors and, ultimately, may not be commercially successful. Market acceptance of our product candidates for which we receive approval depends on a number of factors. Any failure by our product candidates that obtain regulatory approval to achieve market acceptance or commercial success would adversely affect our financial results.

The potential widespread acceptance of therapies that are alternatives to ours may limit market acceptance of our formulations or products, even if commercialized. Many of our targeted diseases and conditions can also be treated by other medication or technologies. These treatments may be widely accepted in medical communities and have a longer history of use. The established use of these competitive drugs may limit the potential for our technologies, formulations and products to receive widespread acceptance if commercialized.

The market for our product candidates is rapidly changing and competitive, and new technologies treatments which may be developed by others could impair our ability to maintain and grow our business and remain competitive. The pharmaceutical and biotechnology industries are subject to rapid and substantial technological change. Developments by others may render our technologies and our product candidates noncompetitive or obsolete, or we may be unable to keep pace with technological developments or other market factors. Technological competition from pharmaceutical and biotechnology companies, universities, governmental entities and others now existing or diversifying into the field is intense and is expected to increase. Many of these entities have significantly greater research and development capabilities, human resources and budgets than we do, as well as substantially more marketing, manufacturing, financial and managerial resources. These entities represent significant competition for us.

Risks Related to Product Development and Regulation

Our ability to generate revenues will be dependent on our ability to develop a product that complies with legal requirements. Although the laws and regulations of the various jurisdictions in which we may operate vary in their technical requirements and are subject to amendment from time to time, virtually all of these jurisdictions require licenses, permits, and other forms of approval. We will have to apply for, and obtain, all requisite government licenses, registrations, findings of suitability, permits and approvals necessary for us to do business in these new markets. We cannot offer any assurance that we will be able to obtain all necessary licenses, registrations, findings of suitability, permits, or approvals.

Our failure to obtain costly government approvals, including required FDA approvals, or to comply with ongoing governmental regulations relating to our technologies and product candidates could delay or limit introduction of our products and result in failure to achieve revenues or maintain our ongoing business. Our research and development activities and the manufacture and marketing of our product candidates are subject to extensive regulation for safety, efficacy and quality by numerous government authorities in the United States and abroad. Before receiving FDA or foreign regulatory clearance to market our proposed formulations and products, we will have to demonstrate that our formulations and products are safe and effective in the population. Clinical trials, manufacturing and marketing of drugs are subject to the rigorous testing and approval process of the FDA and equivalent foreign regulatory authorities. The Federal Food, Drug and Cosmetic Act and other federal, state and foreign statutes and regulations govern and influence the testing, manufacture, labeling, advertising, distribution and promotion of drugs and medical devices. As a result, regulatory approvals can take a number of years or longer to accomplish and require the expenditure of substantial financial, managerial and other resources.

Conducting and completing the clinical trials necessary for FDA and/or Health Canada approval is costly and subject to intense regulatory scrutiny as well as the risk of failing to meet the primary endpoint of such trials. We will not be able to commercialize and sell our proposed products and formulations without completing such trials. In order to conduct clinical trials that are necessary to obtain approval by the FDA and/or Health Canada to market a formulation or product, it is necessary to receive clearance from the FDA and/or Health Canada to conduct such clinical trials. The FDA and/or Health Canada can halt clinical trials at any time for safety reasons or because we or our clinical investigators did not follow the FDA's and/or Health Canada requirements for conducting clinical trials. If we are unable to receive clearance to conduct clinical trials or the trials are permanently halted by the FDA and/or Health Canada, we would not be able to achieve any revenue from such product as it is illegal to sell any drug or medical device for human consumption or use without FDA and/or Health Canada approval.

We could be exposed to significant drug product liability claims which could be time consuming and costly to defend, divert management attention and adversely impact our ability to obtain and maintain insurance coverage. The testing, manufacturing, marketing and sale of our proposed products involve an inherent risk that product liability claims will be asserted against us. Product liability insurance may prove inadequate to cover claims and/or litigation costs. Product liability claims or other claims related to our products, regardless of their outcome, could require us to spend significant time and money in litigation or to pay significant settlement amounts or judgments. Any successful product liability or other claim may prevent us from obtaining adequate liability insurance in the future on commercially desirable or reasonable terms. An inability to obtain sufficient insurance coverage at an acceptable cost or otherwise to protect against potential product liability claims could prevent or inhibit the commercialization of our products and product candidates. A product liability claim could also significantly harm our reputation and delay market acceptance of our proposed formulations and products.

Risk Factors Related to Intellectual Property and Obsolescence

We rely on patents and other intellectual property to protect our business interests. We have attempted to protect our products and will attempt to protect other products through a combination of trade secrets, confidentiality agreements, patents and other contractual provisions. Patents only provide a limited protection against infringement, and patent infringement suits are complex, expensive, and not always successful. Although the Company believes its patents will provide significant protection, there can be no assurance that they will be issued and if they are, that they will provide enough protection.

Because it is difficult and costly to protect our proprietary rights, we may not be able to ensure their protection. Our commercial success will depend in part on maintaining patent protection and trade secret protection for our products, as well as successfully defending these patents against third-party challenges. We will only be able to protect our technologies from unauthorized use by third parties to the extent that valid and enforceable patents or trade secrets cover them.

The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. No consistent policy regarding the breadth of claims allowed in pharmaceutical or biotechnology patents has emerged to date in the United States. The patent situation outside the United States is even more uncertain. Changes in either the patent laws or in interpretations of patent laws in the United States and other countries may diminish the value of our intellectual property. Accordingly, we cannot predict the breadth of claims that may be allowed or enforced in our patents or in third-party patents.

Our competitive position could be harmed if we are unable to enforce confidentiality agreements. Our proprietary information is critically important to our competitive position and is a significant aspect of our business plan. We generally enter into confidentiality agreements with most of our employees and consultants, and control access to, and distribution of, our documentation and other proprietary information. Despite these precautions, we cannot assure you that these strategies will be adequate to prevent misappropriation of our proprietary information. Therefore, we could be required to expend significant amounts to defend our rights to proprietary information in the future if a breach were to occur.

General Corporate Risk Factors

Insiders continue to have substantial control over the Company. As of March 8, 2018, the Company's directors and executive officers hold the current right to vote approximately 28.5% of the Company's outstanding voting stock; most of which is owned or controlled, directly or indirectly by the Company CEO, Clarence Smith. In addition, the Company's directors and executive officers have the right to acquire additional shares which could increase their voting percentage significantly. As a result, Mr. Smith acting alone, and/or many of these individuals acting together, may have the ability to exert significant control over the Company's decisions and control the management and affairs of the Company, and also to determine the outcome of matters submitted to stockholders for approval, including the election and removal of a director, the removal of any officer and any merger, consolidation or sale of all or substantially all of the Company's assets. Accordingly, this concentration of ownership may harm a future market price of the Company's common stock by:

- Delaying, deferring or preventing a change in control of the Company;
- Impeding a merger, consolidation, takeover or other business combination involving the Company; or
- Discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of the Company.

The Company may not be able to continue as a going concern. Our independent public accountants noted that our recurring losses from operations (\$1,513,634 and \$1,524,638 for the years ended December 31, 2017 and 2016, respectively) and negative net operating cash flow (\$605,109 and \$820,253 for the years ended December 31, 2017 and 2016, respectively) raise substantial doubt about our ability to continue as a going concern. This may hinder our future ability to obtain financing, or may force us to obtain financing on less favorable terms than would otherwise be

available.

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The Company is dependent upon additional financing which it may not be able to secure in the future. As it has in the past, the Company will likely continue to require financing to address its working capital needs, continue its development efforts, support business operations, fund possible continuing operating losses, and respond to unanticipated capital requirements. There can be no assurance that additional financing or capital will be available and, if available, upon acceptable terms and conditions. To the extent that any required additional financing is not available on acceptable terms, the Company's ability to continue in business may be jeopardized and the Company may need to curtail its operations and implement a plan to extend payables and reduce overhead until sufficient additional capital is raised to support further operations. There can be no assurance that such a plan will be successful. Such a plan could have a material adverse effect on the Company's business, financial condition and results of operations, and ultimately the Company could be forced to discontinue its operations, liquidate and/or seek reorganization in bankruptcy.

The Company has been delinquent in filing certain income tax and information reporting returns. The Company was delinquent in filing certain income tax returns with the U.S. Internal Revenue Service and reports disclosing its interest in foreign bank accounts on form TDF 90-22.1, "Report of Foreign Bank and Financial Accounts" ("FBARs"). In September 2015, the Company filed the delinquent income tax returns and has sought waivers of any penalties under the IRS Offshore Voluntary Disclosure Program for late filing of the returns and FBARs. Under the program, the IRS has indicated that it will not impose a penalty for the failure to file delinquent income tax returns if there are no underreported tax liabilities. On November 30, 2017, the Company received a letter from the IRS concluding their review of the Company's tax returns under the program and accepting the returns as filed. No penalties have been assessed by the IRS to date, and management does not believe that the Company will incur any penalties relating to the tax years submitted under the program.

Our management is relatively inexperienced with running a public company and could create a risk of non-compliance. Management's inexperience may cause us to fall out of compliance with applicable regulatory requirements, which could lead to enforcement action against us and a negative impact on our stock price. Compliance with changing regulation of corporate governance and public disclosure may result in additional expenses and could create a risk of non-compliance. Changing laws, regulations and standards relating to corporate governance and public disclosure have created uncertainty for public companies and significantly increased the costs and risks associated with accessing the public markets and public reporting. These corporate governance standards are the product of many sources, including, without limitation, public market perception, stock exchange regulations and SEC disclosure requirements. Our management team expects to invest significant management time and financial resources to comply with both existing and evolving standards for public companies, which will lead to increased general and administrative expenses and a diversion of management time and attention from revenue generating activities to compliance activities. Management's inexperience may cause us to fall out of compliance with applicable regulatory requirements, which could lead to enforcement action against us and a negative impact on our stock price. As a company with a class of securities registered pursuant to the Exchange Act the Company has significant obligations under the Exchange Act. Having a class of securities registered under the Exchange Act is a time consuming and expensive process and subjects the Company to increased regulatory scrutiny and extensive and complex regulation. Complying with these regulations is expensive and requires a significant amount of management's time. For example, public companies are obligated to institute and maintain financial accounting controls and for the accuracy and completeness of their books and records. These requirements could necessitate additional corporate spending on procedures and personnel requiring us to reallocate funds from other business objectives.

Risk Factors Related to Our Common Stock

The Company will face significant regulation by the SEC and state securities administrators. The holders of shares of the Company's common stock and preferred stock may not offer or sell the shares in private transactions or (should a public market develop, of which there can be no assurance) public transactions without compliance with regulations imposed by the SEC and various state securities administrators. To the extent that any holder desires to offer or sell any such shares, the holder must prove to the reasonable satisfaction of the Company that he has complied with all applicable securities regulations, and the Company may require an opinion of the holder's legal counsel to that effect.

Thus, there can be no assurance that the holder will be able to resell the shares or any interest therein when the holder desires to do so.

Our existing shareholders could experience further dilution if we elect to raise equity capital to meet our liquidity needs or finance a strategic transaction. As part of our growth strategy we may desire to raise capital and or utilize our common stock to effect strategic business transactions. Either such action will likely require that we issue equity (or debt) securities which would result in dilution to our existing stockholders. Although we will attempt to minimize the dilutive impact of any future capital-raising activities or business transactions, we cannot offer any assurance that we will be able to do so. If we are successful in raising additional working capital, we may have to issue additional shares of our common stock at prices at a discount from the then-current market price of our common stock.

Because we have no plans to pay dividends on our common stock, investors must look solely to stock appreciation for a return on their investment in us. We do not anticipate paying any cash dividends on our common stock in the foreseeable future. We currently intend to retain all future earnings to fund the development and growth of our business. Any payment of future dividends will be at the discretion of our board of directors and will depend on, among other things, our earnings, financial condition, capital requirements, level of indebtedness, statutory and contractual restrictions applying to the payment of dividends and other considerations that the board of directors deems relevant. Investors must rely on sales of their common stock after price appreciation, which may never occur, as the only way to realize a return on their investment. Investors seeking cash dividends should not purchase our common stock.

As our stock is not listed on a national securities exchange, trading in our shares will be subject to rules governing "penny stocks," which will impair trading activity in our shares. Our stock is not on a national securities exchange. Therefore, our stock is subject to rules adopted by the SEC regulating broker dealer practices in connection with transactions in "penny stocks." Those disclosure rules applicable to "penny stocks" require a broker dealer, prior to a transaction in a "penny stock" not otherwise exempt from the rules, to deliver a standardized list disclosure document prepared by the SEC. That disclosure document advises an investor that investment in "penny stocks" can be very risky and that the investor's salesperson or broker is not an impartial advisor but rather paid to sell the shares. The disclosure contains further warnings for the investor to exercise caution in connection with an investment in "penny stocks," to independently investigate the security, as well as the salesperson with whom the investor is working and to understand the risky nature of an investment in this security. The broker dealer must also provide the customer with certain other information and must make a special written determination that the "penny stock" is a suitable investment for the purchaser and receive the purchaser's written agreement to the transaction. Further, the rules require that, following the proposed transaction, the broker provide the customer with monthly account statements containing market information about the prices of the securities.

The over-the-counter market for stock such as ours is subject to extreme price and volume fluctuations. You may not be able to resell your shares at or above the public sale price. The securities of companies such as ours have historically experienced extreme price and volume fluctuations during certain periods. These broad market fluctuations and other factors, such as new product developments and trends in the industry and in the investment markets generally, as well as economic conditions and quarterly variations in our operational results, may have a negative effect on the market price of our common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

The Company's principal executive office, for all operations, is located at 412 Mulberry Street, Marietta, Ohio 45750. The Company currently does not have a lease for its principal executive office but rents month to month. A lease on the space is held by the CFO, Michael Guzzetta. The Company pays \$1,050 per month for the office. ProtoKinetix does not own any real property.

ITEM 3. LEGAL PROCEEDINGS

Effective February 19, 2015, the Company entered into a Settlement Agreement by and between the Company, Ross L. Senior, and the British Columbia Securities Commission (the "BCSC"). The Company and Ross L. Senior, ProtoKinetix' former President and CEO, cooperated with the BCSC in reaching the settlement.

In the Settlement Agreement, Mr. Senior and the Company admitted that the Company breached an ongoing Cease Trade Order (CTO) that became effective on May 9, 2013. The CTO was originally issued by the BCSC due to the Company's failure to make required filings under the British Columbia Securities Act.

During the time the CTO has been in effect, Mr. Senior had been the President, CEO and a director of the Company. Between May 28, 2013 and June 6, 2014, and while subject to the CTO, the Company and Mr. Senior distributed securities to 14 individuals and two companies for payment of services and repayment of loans valued at approximately \$360,000, as well as an existing shareholder and current director for cash proceeds of \$100,000. Mr. Senior acknowledges that he and the Company made the distributions in contravention of the CTO.

Under the terms of the Settlement Agreement, Mr. Senior is prohibited from becoming or acting as a director or officer of any reporting issuer in Canada for a period of one year, and Mr. Senior and the Company have jointly paid \$10,000 to the BCSC. Mr. Senior has also agreed to successfully complete a course on the duties and responsibilities of corporate officers and directors that is acceptable to the Executive Director of the BCSC within one year of the date of the Settlement Agreement.

The CTO was lifted effective February 23, 2015. The Company has made all required filings with the BCSC to date.

On November 3, 2017, the Company and Susan M. Woodward entered into a settlement agreement and agreed that Ms. Woodward would leave her position as chief financial officer (CFO), effective upon the filing of the Company's quarterly report for the quarter ended September 30, 2017, in satisfactory form, but remain engaged to assist the Company through December 31, 2017, and to transition books and records of the Company. Ms. Woodward's departure from her position as chief financial officer was prior to the natural expiration of her consulting agreement, dated December 30, 2016 and due to expire on December 31, 2017 (the "Consulting Agreement"). Upon the filing of the Company's quarterly report for the quarter ended September 30, 2017, and Ms. Woodward's subsequent resignation as chief financial officer (CFO) and a consultant on November 13, 2017, the Consulting Agreement terminated.

On October 23, 2017, the Company issued an unsecured promissory note to Clarence E. Smith in the amount of \$86,000. The outstanding principal balance on the promissory note was due on demand by Mr. Smith and accrued simple interest at a rate of 8% per annum from the date the principal balance was advanced.

On November 3, 2017 the Company issued a second unsecured promissory note to Mr. Smith in the amount of \$30,000. The outstanding principal balance on the promissory note was due on demand by Mr. Smith and accrued simple interest at a rate of 8% per annum from the date the principal balance was advanced.

The above-listed promissory notes were issued by the Company in order to acquire the funds necessary to re-purchase Ms. Woodward's stock options to purchase up to 12 million shares of common stock of the Company and to pay Ms. Woodward's compensation for December 2017 pursuant to the settlement agreement discussed above.

On January 12, 2018, the Company issued shares of common stock pursuant to a private placement to Mr. Smith in exchange for the two promissory notes. Please see Item 5 below for a detailed discussion and the repurchase of Ms. Woodward's options.

There are currently no legal proceedings pending.

ITEM 4. MINE SAFETY MATTERS

Not applicable.

PART II

ITEM MARKET FOR THE REGISTRANT'S COMMON EQUITY AND RELATED STOCKHOLDER MATTERS
5. AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is currently quoted on OTCQB tier of the OTC Markets under the symbol "PKTX". The table below sets forth the high and low bid prices of the Company's common stock during the periods indicated as reported on OTC Markets Inc. (www.otcmarkets.com). The quotations are inter-dealer prices without retail markups, markdowns or commissions, and may not necessarily represent actual transactions.

2017	Low	High
First Quarter	\$0.051	\$0.189
Second Quarter	0.0626	0.110
Third Quarter	0.0401	0.078
Fourth Quarter	0.0535	0.070
2016	Low	High
First Quarter	\$0.035	\$0.084
Second Quarter	0.034	0.074
Third Quarter	0.020	0.074
Fourth Quarter	0.041	0.072

Holders

As of March 8, 2018 there were approximately 85 shareholders of record of the Company's common stock. This does not include an indeterminate number of persons who hold our Common Stock in brokerage accounts and otherwise in "street name."

Dividends

We have never paid cash dividends and have no plans to do so in the foreseeable future. Our future dividend policy will be determined by our board of directors and will depend upon a number of factors, including our financial condition and performance, our cash needs and expansion plans, income tax consequences, and the restrictions that applicable laws, our current preferred stock instruments, and our future credit arrangements may then impose.

Adoption of the 2015 Stock Option and Stock Bonus Plan

On July 1, 2015, the Board of Directors of the Company adopted the 2015 Stock Option and Stock Bonus Plan (the "2015 Plan"). The Board of Directors adopted this plan as it anticipates utilizing equity compensation as part of its ongoing standard corporate operations and in connection with its contemplated activities going forward.

Under the 2015 Plan, the lesser of: (i) 20,000,000 shares; or (ii) 10% of the total number of the Company's common shares outstanding are reserved to be issued upon the exercise of options or the grant of stock bonuses. As such, the 2015 Plan is subject to an absolute cap of 20,000,000 shares. The 2015 Plan includes two types of options; options intended to qualify as incentive stock options under Section 422 of the Internal Revenue Code of 1986, as amended are referred to as incentive options, and options which are not intended to qualify as incentive options are referred to as non-qualified options.

The 2015 Plan is administered by the Board of Directors, or a committee appointed by the Board of Directors. In addition to determining who will be granted options or stock bonuses, the committee has the authority and discretion to determine when options and bonuses will be granted and the number of options and bonuses to be granted. The committee also may determine a vesting and/or forfeiture schedule for bonuses and/or options granted, the time or times when each option becomes exercisable, the duration of the exercise period for options and the form or forms of the agreements, certificates or other instruments evidencing grants made under the 2015 Plan. The committee may determine the purchase price of the shares of common stock covered by each option and determine the fair market value per share. The committee also may impose additional conditions or restrictions not inconsistent with the provisions of the 2015 Plan. The committee may adopt, amend and rescind such rules and regulations as in its opinion may be advisable for the administration of the 2015 Plan.

In the event that a change, such as a stock split, is made in the Company's capitalization which results in an exchange or other adjustment of each share of common stock for or into a greater or lesser number of shares, appropriate adjustments will be made to unvested bonuses and in the exercise price and in the number of shares subject to each outstanding option. The committee also may make provisions for adjusting the number of bonuses or underlying outstanding options in the event the Company effects one or more reorganizations, recapitalizations, rights offerings, or other increases or reductions of shares of its outstanding common stock. Options and bonuses may provide that in the event of the dissolution or liquidation of the Company, a corporate separation or division or the merger or consolidation of the Company, the holder may exercise the option on such terms as it may have been exercised immediately prior to such dissolution, corporate separation or division or merger or consolidation; or in the alternative, the committee may provide that each option granted under the 2015 Plan shall terminate as of a date fixed by the committee.

The exercise price of any option granted under the 2015 Plan must be no less than 100% of the "fair market value" of the Company's common stock on the date of grant. Any incentive stock option granted under the 2015 Plan to a person owning more than 10% of the total combined voting power of the common stock must be at a price of no less than 110% of the fair market value per share on the date of grant.

The exercise price of an option may be paid in cash, in shares of the Company's common stock or other property having a fair market value equal to the exercise price of the option, or in a combination of cash, shares, other securities and property. The committee determines whether or not property other than cash or common stock may be used to purchase the shares underlying an option and shall determine the value of the property received.

All awards granted under the 2015 Stock Option and Stock Bonus Plan (the "2015 Plan") will continue forward under the 2015 Plan until expired or exercised pursuant to the terms of each individual award agreement, however, no new awards shall be granted under the 2015 Plan.

On November 13, 2017, in connection with the settlement agreement entered into with Ms. Woodward, the Company repurchased options to purchase 4,000,000 shares of common stock.

As of December 31, 2017 and March 8, 2018, 11,900,000 options and 2,000,000 shares of common stock remained as granted under the 2015 Plan.

Adoption of the 2017 Stock Option and Stock Bonus Plan

On December 30, 2016, the Board of Directors of the Company adopted the 2017 Stock Option and Stock Bonus Plan (the "2017 Plan"). The Board of Directors adopted the 2017 Plan as it anticipates utilizing equity compensation as part of its ongoing standard corporate operations and in connection with its contemplated activities going forward.

The aggregate number of shares that may be issued under the 2017 Plan is 30,000,000 shares subject to adjustment as provided therein. The 2017 Plan includes two types of options. Options intended to qualify as incentive stock options under Section 422 of the Internal Revenue Code of 1986, as amended are referred to as incentive options. Options which are not intended to qualify as incentive options are referred to as non-qualified options.

The 2017 Plan is administered by the Board of Directors, or a committee appointed by the Board of Directors. In addition to determining who will be granted options or bonuses, the committee has the authority and discretion to determine when options and bonuses will be granted and the number of options and bonuses to be granted. The committee also may determine a vesting and/or forfeiture schedule for bonuses and/or options granted, the time or times when each option becomes exercisable, the duration of the exercise period for options and the form or forms of the agreements, certificates or other instruments evidencing grants made under the 2017 Plan. The committee may

determine the purchase price of the shares of common stock covered by each option and determine the fair market value per share. The committee also may impose additional conditions or restrictions not inconsistent with the provisions of the 2017 Plan. The committee may adopt, amend and rescind such rules and regulations as in its opinion may be advisable for the administration of the 2017 Plan.

The committee also has the power to interpret the 2017 Plan, and the provisions in the instruments evidencing grants made under it, and is empowered to make all other determinations deemed necessary or advisable for the administration of it.

Participants in the 2017 Plan may be selected by the committee from employees, officers, consultants and advisors (including board members) of ProtoKinetix. The committee may take into account the duties of persons selected, their present and potential contributions to the success of ProtoKinetix and such other considerations as the committee deems relevant to the purposes of the 2017 Plan.

In the event of a change, such as a stock split, is made in the Company's capitalization which results in an exchange or other adjustment of each share of common stock for or into a greater or lesser number of shares, appropriate adjustments will be made to unvested bonuses and in the exercise price and in the number of shares subject to each outstanding option. The committee also may make provisions for adjusting the number of bonuses or underlying outstanding options in the event the Company effects one or more reorganizations, recapitalizations, rights offerings, or other increases or reductions of shares of its outstanding common stock. Options and bonuses may provide that in the event of the dissolution or liquidation of ProtoKinetix, a corporate separation or division or the merger or consolidation of ProtoKinetix, the holder may exercise the option on such terms as it may have been exercised immediately prior to such dissolution, corporate separation or division or merger or consolidation; or in the alternative, the committee may provide that each option granted under the 2017 Plan shall terminate as of a date fixed by the committee.

The exercise price of any option granted under the 2017 Plan must be no less than 100% of the "fair market value" of ProtoKinetix's common stock on the date of grant. Any incentive stock option granted under the 2017 Plan to a person owning more than 10% of the total combined voting power of the common stock must be at a price of no less than 110% of the fair market value per share on the date of grant.

The exercise price of an option may be paid in cash, in shares of ProtoKinetix common stock or other property having a fair market value equal to the exercise price of the option, or in a combination of cash, shares, other securities and property. The committee determines whether or not property other than cash or common stock may be used to purchase the shares underlying an option and shall determine the value of the property received.

As of December 31, 2017 and March 8, 2018 respectively, 24,200,000 and 25,000,000 options remain as granted under the 2017 Plan.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table sets forth securities authorized for issuance under equity compensation plans, including but not limited to the 2015 Plan, the 2017 Plan and individual compensation arrangements as of December 31, 2017:

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))*
	(a)	(b)	(c)
Equity compensation plans approved by security holders	-	-	-
Equity compensation plans not approved by security holders	36,100,000	\$ 0.06	11,900,000
Total	36,100,000	\$ 0.06	11,900,000

* Number of securities remaining available for future issuance excludes 36,100,000 options and a stock grant of 2,000,000 shares of common stock under the 2015 Plan.

During the year ended December 31, 2016, warrants to purchase 6,500,000 shares of common stock of the Company were outstanding (see Note 8 of the notes to the financial statements). As of the year ended December 31, 2017, there were warrants and options outstanding representing a total of 6,500,000 and 44,100,000 shares of common stock respectively to be issued upon exercise, of which: (i) options to purchase 11,900,000 shares of common stock and a stock bonus of 2,000,000 common shares were outstanding under the 2015 Plan; (ii) options to purchase 24,200,000 shares of common stock were outstanding under the 2017 Plan; and (iii) warrants outstanding to purchase 6,500,000 shares of common stock not pursuant to any plan and options outstanding to purchase 8,000,000 of common stock not pursuant to any plan.

To management's knowledge, there are no outstanding options, warrants or other rights to acquire the common stock of the Company that were issued pursuant to the Company's 2003, 2004 or 2005 Stock Incentive Plans (the "Old Plans") for the year ended December 31, 2017. To management's knowledge, the Old Plans have expired and terminated.

Recent Sales of Unregistered Securities and Use of Proceeds

Other than already reported, there have been no unregistered sales of equity securities during the year ended December 31, 2017.

On January 1, 2018, the Company issued options to purchase a total of 800,000 shares of common stock pursuant to the 2017 Plan to two consultants in connection with their new consulting agreements.

On January 12, 2018, the Company issued 1,000,000 shares of common stock at a price of \$0.05 per share for gross proceeds of \$50,000 pursuant to a subsequent private placement with accredited investors. No solicitation was used in

this offering. For this sale of securities, the Company relied on the exemption from registration available under Section 4(a)(2) of the Securities Act and Rule 506(b) of Regulation D promulgated under the Securities Act with respect to transactions by an issuer not involving any public offering. No commissions were paid in connection with this issuance of securities. A Form D was previously filed on September 21, 2017.

Also on January 12, 2018, the Company issued 2,359,240 shares of common stock at a value of \$0.05 per share which Clarence E. Smith, the Company's President and Chief Executive Officer and a director, personally acquired in exchange for the cancellation of principal and interest due under two unsecured promissory notes issued in connection with Ms. Woodward's settlement agreement totaling \$117,962.00. The unsecured promissory notes between Mr. Smith and the Company were entered into on October 23, 2017 (\$86,000) and November 3, 2017 (\$30,000). No solicitation was used in this offering. For this sale of securities, the Company relied on the exemption from registration available under Section 4(a)(2) of the Securities Act and Rule 506(b) of Regulation D promulgated under the Securities Act with respect to transactions by an issuer not involving any public offering. No commissions were paid in connection with this issuance of securities. A Form D was previously filed on September 1, 2017.

ITEM 6. SELECTED FINANCIAL DATA

As a smaller reporting company, we are not required to provide the information required by this item.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion provides information regarding the results of operations for the years ended December 31, 2017 and 2016, and our financial condition, liquidity and capital resources as of December 31, 2017 and 2016. The financial statements and the notes thereto contain detailed information that should be referred to in conjunction with this discussion.

The following discussion and analysis should be read in conjunction with and our historical financial statements and the accompanying notes included elsewhere in this Annual Report on Form 10-K, as well as the Risk Factors and the Cautionary Note Regarding Forward-Looking Statements included above.

Results of Operations

	For the Years Ended	
	2017	2016
Sales		
Cost of sales	\$	\$
Gross (loss) profit	-	-
Operating Expenses		
Amortization	\$3,000	\$3,000
General and Administrative	105,265	99,648
Interest Expense	1,656	12
Professional Fees	196,828	211,006
Research and Development	296,515	450,899
Share-Based Compensation	910,370	760,073
Total operating expenses	1,513,634	1,524,638
Loss from Operations	(1,513,634)	(1,524,638)
Other Income		
Gain on Settlement of Short-Term Loans	-	7,272
Total other income	-	7,272
Net Loss	\$(1,513,634)	\$(1,517,366)

Revenues

We had no revenues for the years ended December 31, 2017 and 2016.

Gross profit and expenses

The Company's net loss was \$1,513,634 for the year ending December 31, 2017 compared to \$1,524,638 for the year ending December 31, 2016. These expenses were primarily incurred for professional fees, share-based compensation related to the operations of the Company's business, research and development and other general and administrative expenses. Significant changes from the prior year include:

- Professional fees decreased by \$14,178 from \$211,006 to \$196,828 primarily as a result of decreased legal activity related to the application of patent rights.
- Interest expense increased to \$1,656 from \$12 as the result of an increase in short-term loans and notes payable.
- Share-based compensation increased by \$150,297 from \$760,073 to \$910,370 primarily as a result of the buyback of options granted to the former CFO of stock options pursuant to consulting contracts in 2017.
- Research and development decreased by \$154,384 from \$450,899 to \$296,515 primarily as a result of management's investment in prior year that moved the Company forward in the development of the AAGP™ molecule.
- General and administrative expenses increased by \$5,617 from \$99,648 to \$105,265 due to an increase in advertising expenses related to business announcements.

Our expenses in 2017 were \$1,513,634 which included \$196,828 in professional fees. We operate the Company by hiring outside consultants to assist us with management, strategic planning, organization and daily operations. This resulted in \$910,370 in share-based compensation recognized based on the fair value of equity instruments granted as compensation. These professional consulting services related to marketing and accounting, capitalization and merger opportunities as well as research development services. The Company also incurred total research and development expenses of \$296,515 and general and administrative costs of \$105,265 during the year ended December 31, 2017.

Liquidity and Capital Resources

	As at	
	December 31,	
	2017	2016
Cash	\$302,942	\$371,029
Working Capital	\$220,507	\$396,118

At December 31, 2017, we had \$302,942 in cash and \$365,069 in total current assets. As of December 31, 2016, we had a working capital equity position of \$396,118. Although as of the date of this Annual Report we believe we have sufficient capital to meet cash flow projections and carry forward our business objectives in the short-term, the Company needs additional working capital to continue its medical research or to be successful in any future business activities and continue to pay its liabilities. There can be no assurance that in the future we will be able to raise capital from outside sources in sufficient amounts to fund our business.

The failure to secure adequate outside funding would have an adverse effect on our plan of operation and results therefrom and a corresponding negative impact on stockholder liquidity.

Sources and Uses of Cash for the Years ended December 31, 2017 and 2016

Net Cash Used in Operating Activities

During the year ended December 31, 2017, net cash used in operating activities decreased by \$215,144 from \$820,253 to \$605,109 for the years ended December 31, 2016 and 2017, respectively. This decrease was predominantly due to an increase in share-based compensation from the repurchase of stock options for 12 million shares of common stock.

Net Cash Used in Investing Activities

During the year ended December 31, 2017, net cash used in investing activities decreased by \$86,812 primarily due to the increase of short term borrowing. Net cash used for investing activities for the year ended December 31, 2016 was \$29,790. Net cash increase from investing activities for the year ended December 31, 2017 was \$57,022. The buyback of stock options was a one-time event financed by two short-term loans to the Company totaling \$116,000. The CEO subsequently converted the loans to common stock equity in January of 2018.

Net Cash Provided by Financing Activities

During the year ended December 31, 2017, net cash provided by financing activities decreased by \$370,000 from \$850,000 to \$480,000 for the years ended December 31, 2016 and 2017, respectively. This decrease was predominantly due to a decrease in private placements completed.

Going Concern

The accompanying financial statements have been prepared in conformity with accounting principles generally accepted in the United States ("U.S. GAAP"), which contemplate continuation of the Company as a going concern. The history of losses and the potential inability for the Company to make a profit from selling a good or service has raised substantial doubt about our ability to continue as a going concern. In spite of the fact that the current cash obligations of the Company are relatively minimal, given the cash position of the Company, we have very little cash to operate. We intend to fund the Company and attempt to meet corporate obligations by selling common stock. However, the Company's common stock is at a low price and is not actively traded.

Off-Balance Sheet Arrangements

None.

Contractual Obligations

As a smaller reporting company, we are not required to provide the information required by paragraph (a)(5) of this Item.

Critical Accounting Policies

The preparation of financial statements in conformity with U.S. GAAP requires management to make a variety of estimates and assumptions that affect (i) the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the financial statements, and (ii) the reported amounts of revenues and expenses during the reporting periods covered by the financial statements.

Our management routinely makes judgments and estimates about the effect of matters that are inherently uncertain. As the number of variables and assumptions affecting the future resolution of the uncertainties increase, these judgments become even more subjective and complex. Although we believe that our estimates and assumptions are reasonable, actual results may differ significantly from these estimates. Changes in estimates and assumptions based upon actual results may have a material impact on our results of operation and/or financial condition. Our significant accounting policies are disclosed in Note 2 to the Financial Statements included in this Form 10-K.

While all of the significant accounting policies are important to the Company's financial statements, the following accounting policies and the estimates derived there from have been identified as being critical.

Share-Based Compensation

The Company has granted warrants and options to purchase shares of the Company's common stock to various parties for consulting services. The fair values of the warrants and options issued have been estimated using the Black-Scholes Option Pricing Model.

The Company accounts for stock compensation with persons classified as employees for accounting purposes in accordance with ASC 718 "Compensation – Stock Compensation", which recognizes awards at fair value on the date of grant and recognition of compensation over the service period for awards expected to vest. The fair value of stock options is determined using the Black-Scholes Option Pricing Model. The fair value of common shares issued for services is determined based on the Company's stock price on the date of issuance.

The Company accounts for stock compensation arrangements with persons classified as non-employees for accounting purposes in accordance with ASC 505-50 "Stock-Based Transactions with Nonemployees", which requires that such equity instruments are recorded at their fair value on the measurement date. The measurement of share-based compensation is subject to periodic adjustment as the underlying instruments vest. The fair value of stock options is estimated using the Black-Scholes Option Pricing Model and the compensation charges are amortized over the vesting period.

Intangible Assets – Patent and Patent Application Costs

The Company owns intangible assets consisting of certain patents and patent applications. Intangible assets acquired separately are measured on initial recognition at cost. Following initial recognition, intangible assets are carried at cost less any accumulated amortization and any accumulated impairment losses. Subsequent expenditures are capitalized only when they increase the future economic benefits embodied in the specific asset to which they relate. All other expenditures are recognized in profit or loss as incurred.

As at December 31, 2017, the Company does not hold any intangible assets with indefinite lives.

Intangible assets with finite lives are amortized over the useful economic life and assessed for impairment whenever there is an indication that the intangible asset may be impaired. The amortization method and amortization period of an intangible asset with a finite life is reviewed at least annually.

Changes in the expected useful life or the expected pattern of consumption of future economic benefits embodied in the asset is accounted for by changing the amortization period or method, as appropriate, and are treated as changes in accounting estimates.

Amortization is recognized in profit or loss on a straight-line basis over the estimated useful lives of the Company's patents, whereas no amortization has been recognized on the patent application costs as at December 31, 2017.

Sales and Marketing

The Company is currently not selling or marketing any products.

Inflation

Although management expects that our operations will be influenced by general economic conditions, we do not believe that inflation had a material effect on our results of operations during the year ending December 31, 2017.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

As a smaller reporting company, we are not required to provide the information required by this item.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The information required by this Item begins on page F-1 of this Annual Report on Form 10-K and is incorporated into this part by reference.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed in our reports filed or submitted under the 1934 Act is recorded, processed, summarized and reported, within the time periods specified in the Securities and Exchange Commission's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in our reports filed under the 1934 Act is accumulated and communicated to management, including our principal executive officer and our principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

Our management, under the direction of our Chief Executive Officer (who is our principal executive officer), and Chief Financial Officer (who is our principal accounting officer) has evaluated the effectiveness of our disclosure controls and procedures as required by 1934 Act Rule 13a-15(b) as of December 31, 2017 (the end of the period covered by this report). Based on that evaluation, our principal executive officer and our principal accounting officer concluded that these disclosure controls and procedures are effective to provide reasonable assurance that information required to be disclosed by the Company in the reports that it files or submits under the 1934 Act is accumulated and communicated to management, including the Chief Executive Officer and the Chief Financial Officer, to allow timely decisions regarding required disclosure and are effective to provide reasonable assurance that such information is recorded, processed, summarized and reported within the time periods specified by the SEC's rules and forms.

The Company, including its Chief Executive Officer and Chief Financial Officer, does not expect that its internal controls and procedures will prevent or detect all error and all fraud. A control system, no matter how well conceived or operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

Management's Annual Report on Internal Control Over Financial Reporting

In accordance with Item 308 of SEC Regulation S-K, management is required to provide an annual report regarding internal controls over our financial reporting. This report, which includes management's assessment of the effectiveness of our internal controls over financial reporting, is found below. Inasmuch as the Company is neither an accelerated filer nor a large accelerated filer, the Company is not obligated to provide an attestation report on the Company's internal control over financial reporting by the Company's registered public accounting firm.

Internal Control Over Financial Reporting

Our management is also responsible for establishing and maintaining adequate internal control over financial reporting ("ICFR") as defined in Rules 13a-15(f) and 15d-15(f) under the 1934 Act. Our ICFR are intended to be designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. GAAP. Our ICFR are expected to include those policies and procedures that management believes are necessary that:

- (1) Pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company;
- (2) Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. GAAP, and that receipts and expenditures of the Company are being made only

- in accordance with proper authorizations of management and our directors; and
- (3) Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on the financial statements.

Management recognizes that there are inherent limitations in the effectiveness of any system of internal control, and accordingly, even effective internal control can provide only reasonable assurance with respect of financial statement preparation and may not prevent or detect misstatements. In addition, effective internal control at a point in time may become ineffective in future periods because of changes in conditions or due to deterioration in the degree of compliance with our established policies and procedures.

As of December 31, 2017, management (with the participation of the Chief Executive Officer and the Chief Financial Officer) conducted an evaluation of the effectiveness of the Company's ICFR based on the framework set forth in Internal Control--Integrated Framework (1992) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) and SEC guidance on conducting such assessments by smaller reporting companies and non-accelerated filers. Based on that assessment, management (with the participation of the Chief Executive Officer and the Chief Financial Officer) concluded that, during the period covered by this report, such internal controls and procedures were not effective as of December 31, 2017.

Material Weaknesses Identified

In connection with the preparation of our financial statements for the year ended December 31, 2017, certain significant deficiencies in internal control became evident to management that, in the aggregate, represent material weaknesses, which include the following:

Insufficient segregation of duties in our finance and accounting functions due to limited personnel. During the year ended December 31, 2017, we used outside services to perform all aspects of our financial reporting process, including, but not limited to, access to the underlying accounting records and systems, the ability to post and record journal entries and responsibility for the preparation of the financial statements. This creates a lack of review over the financial reporting process that would likely result in a failure to detect errors in spreadsheets, calculations, or assumptions used to compile the financial statements and related disclosures as filed with the SEC. These control deficiencies could result in a material misstatement to our interim or annual financial statements that would not be prevented or detected.

Insufficient corporate governance policies. Although we have a code of ethics which provides broad guidelines for corporate governance, our corporate governance activities and processes are not always formally documented. Specifically, decisions made by our Board of Directors to be carried out by management should be documented and communicated on a timely basis to reduce the likelihood of any misunderstandings regarding key decisions affecting our operations and management.

Plan for Remediation of Material Weaknesses

We intend to take appropriate and reasonable steps to make the necessary improvements to remediate these deficiencies provided that we have the resources to implement them.

This Annual Report does not include an attestation report of our registered public accounting firm regarding internal control over financial reporting. Management's report is not subject to attestation by our registered public accounting firm.

There was no change in our internal control over financial reporting that occurred during the year ended December 31, 2017, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

Not applicable.

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PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS, PROMOTERS AND CORPORATE GOVERNANCE

As of March 8, 2018, the Company's current officers and directors consist of the following persons:

Name	Age	Title	Year Appointed
Clarence E. Smith	54	Chairman, Chief Executive Officer, President	February 2015
		Director	June 2014
Michael R Guzzetta	60	Chief Financial Officer	November 2017
Edward P. McDonough	65	Director	July 2015

Clarence E. Smith, age 54, was appointed President and Chief Executive Officer for the Company on February 19, 2015 and was previously appointed a member of the Board of Directors of the Company on June 1, 2014. Prior to joining the Company as President and CEO, Mr. Smith served and continues to serve as managing member of Tombstone Resources and Smith Equipment, LLC, a privately held company that holds operating oil and gas wells and Smith Equipment Company, a privately held company that leases out construction equipment. In 1981, Mr. Smith started Arvilla Well Service in West Virginia which provided construction services to oil and gas companies in the Appalachian Basin. After merging Arvilla Well Service into Arvilla Pipeline Construction Co., Inc., Mr. Smith sold the company in 2008. Mr. Smith also purchased Arrow Oilfield Services in 2004, which was renamed Arvilla Oilfield Services, LLC and subsequently merged with Trans Energy, a publicly traded company in 2004. Mr. Smith served as Chairman of the Board and CEO of Trans Energy, Inc. from 2005 to 2006. Mr. Smith graduated from St. Marys High School in West Virginia in 1981.

Michael R. Guzzetta, Mr. Guzzetta, age 60, was appointed Chief Financial Officer of the Company on November 14, 2017. Mr. Guzzetta is a Certified Public Accountant with a practice located in Central & Northeast Ohio providing services including business and individual taxation, non-profit accounting, corporate policy and procedure development, business organization and consulting. Prior to opening his practice, he spent 20 years in corporate management in the communications and energy industries. Between 2014 and 2015, Mr. Guzzetta served as Treasurer and principal financial officer of Trans Energy Inc., a publicly traded energy company, where his responsibilities included corporate banking, risk management, maintaining fiscal control, budgeting, taxation and SEC reporting. His prior positions include Midwest Region Business Manager for a Fortune 100 company and Controller for an energy marketing company. Mr. Guzzetta also served as an Adjunct Professor at Stark State College and taught courses in accounting, finance, business management, and economics. He is a graduate of Walsh University where he graduated Magna Cum Laude with a BA in Accounting. He earned his MBA from Capital University in Columbus, Ohio. Mr. Guzzetta has been a past member of both the Ohio Society of Certified Public Accountants and the American Institute of Certified Public Accountants. He has served on the boards of the Canton Ballet, the ALS CARE Project and the Finance Committee of Stark County Board of Developmental Disabilities.

Edward P. McDonough, age 65, was appointed as a member of the Board of Directors of the Company on July 1, 2015. In addition to serving as a director of the Company, Mr. McDonough is a managing shareholder and President of McDonough, Eddy, Parsons & Baylous, A.C., a certified public accountant firm in Parkersburg, West Virginia since 1985. The firm originated in the early 1950s, employs 15 professional certified public accountants and accountants, and serves as certified public accountants for approximately 400 private corporations, firms, and individuals in various commercial, business, professional, and industrial fields. Mr. McDonough became a Certified Public Accountant in 1978, a Certified Valuation Analyst in 1996, and a Chartered Global Management Accountant in 2012. Since 1986, Mr. McDonough has served as a Director and Chairman of the Board of Community Bank of Parkersburg, held by Community Bankshares, Inc. He is also a Member of the American Institute of Certified Public

Accountants (AICPA), has served as a Past President and Member of the West Virginia Board of Accountancy, is a Life Member, Past Director and Past President of the West Virginia Society of Certified Public Accountants and is a Member and Past President of the Parkersburg Chapter of the West Virginia Society of CPAs. Mr. McDonough acquired his Bachelor of Science in Business Administration with a Major in Accounting at West Virginia University in Morgantown, West Virginia in 1973.

Family Relationships

There are no family relationships among any of our executive officers and directors.

Term of Office

Each director shall hold office until the next annual meeting of shareholders or until his successor shall have been elected and qualified, or until there is a decrease in the number of directors.

Involvement in Legal Proceedings

See Item 3—Legal Proceedings.

Corporate Governance

Code of Ethics

Effective March 31, 2006, our board of directors adopted the ProtoKinetix, Inc. Code of Business Conduct and Ethics. The board of directors believes that our Code of Business Conduct and Ethics provides standards that are reasonably designed to deter wrongdoing and to promote the following: (1) honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships; (2) full, fair, accurate, timely, and understandable disclosure in reports and documents that we file with, or submits to, the Securities and Exchange Commission; (3) compliance with applicable governmental laws, rules and regulations; the prompt internal reporting of violations of the Code of Business Conduct and Ethics to an appropriate person or persons; and (4) accountability for adherence to the Code of Business Conduct and Ethics.

Committees of the Board of Directors

The Company does not currently have a separately designated audit committee. Instead, the Board of Directors as a whole acts as the Company's audit committee. Consequently, the Company does not currently have a designated audit committee financial expert.

The Company also does not have a separately designated compensation committee. To date, the Company has not retained an independent compensation advisor to assist the Company review and analyze the structure and terms of the Company's executive officers.

Business and Scientific Advisory Board

Our Business and Scientific Advisory Board exists to assist the Board of Directors with understanding both the regulatory and business aspects of the biopharmaceutical industry are particularly valuable for the expansion and commercialization of AAGP™ applications. The members on the board are:

Dr. Julia Levy, PhD, Chairman, Business and Scientific Advisory Board. Dr. Levy is a founder, former President and former Chief Scientific Officer of QLT, Inc., where she and her colleagues developed the first medical treatment for macular degeneration, a leading cause of blindness among the elderly. She has received numerous awards and honorary degrees. In her honor the Julia Levy B.C. Leadership Chair in Macular Research at the University of British Columbia was established.

·Mr. Peter Jensen, former director of the Company.

Section 16(a) Beneficial Ownership Reporting Compliances

Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), requires the Company's directors, executive officers and holders of more than 10% of the Company's common stock to file with the Securities and Exchange Commission initial reports of ownership and reports of changes in ownership of common stock and other equity securities of the Company. To our knowledge, based solely on a review of copies of Forms 3, 4 and 5 and any amendments thereto filed with the Securities and Exchange Commission and stockholder reports from our transfer agent and written representations that no other reports were required, during the fiscal year ended December 31, 2017 our officers, directors and 10% or more stockholders complied with all Section 16(a) filing requirements applicable to them except that Mr. Smith and Mr. McDonough each filed one Form 4 late by one day.

ITEM 11. EXECUTIVE COMPENSATION

The following table summarizes the annual compensation paid to ProtoKinetix's named executive officers for the two years ended December 31, 2017 and 2016:

Summary Compensation Table for Executive Officers

Name and Principal Position	Fiscal Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)	Option Awards (\$)	Non-equity Incentive Plan Compensation (\$)	Nonqualified Deferred Compensation Earnings (\$)	All Other Compensation (\$)	Total Compensation (\$)
Clarence E. Smith President & CEO	2017	-	-	-	269,187	-	-	-	269,187
	2016	-	-	-	271,849	-	-	-	271,849
Susan M. Woodward Chief Financial Officer	2017	72,000	-	-	158,619 ⁽¹⁾	-	-	-	166,119
	2016	72,000	-	-	217,479	-	-	-	289,479
Michael R Guzzetta ⁽²⁾ Chief Financial Officer	2017	7,500	-	-	0	-	-	-	7,500

On January 1, 2017, Ms. Woodward was granted options to purchase 4,000,000 shares of common stock at \$0.05 per share under the 2017 Plan. On November 13, 2017, Ms. Woodward resigned as chief financial officer of the Company pursuant to the settlement agreement as described in Item 3 and the Company paid Ms. Woodward \$110,000 to repurchase the option granted in 2017, as well as an option under the 2015 Plan to purchase 4,000,000 shares at \$0.08 per share, and options to purchase 4,000,000 shares at \$0.04 per share not pursuant to any plan.

(2) On November 14, 2017, Mr. Guzzetta was appointed as chief financial officer of the Company.

Consulting Agreements

We have entered into consulting agreements with certain Company officers as set forth below.

Clarence E. Smith – Mr. Smith is Chief Executive Officer and President of the Company. He entered into a consulting agreement with the Company dated March 30, 2015 (effective January 1, 2015). On December 21, 2015, Mr. Smith and the Company entered into a new consulting agreement effective January 1, 2016, superseding the prior agreement (the "2016 Smith Agreement"). The 2016 Smith Agreement provided for a one-year term through December 31, 2016

and for an annual salary of \$1.00 and a termination fee.

In connection with the 2016 Smith Agreement, the Company issued Mr. Smith an option pursuant to the Company's 2015 Plan to purchase 5,000,000 shares of common stock of the Company at a price of \$0.08 per share with 1,250,000 shares vesting every three months starting March 31, 2016.

On or about December 30, 2016, the Company entered into a new consulting agreement with Mr. Smith, effective January 1, 2017 (the "2017 Smith Agreement") which replaced the 2016 Smith Agreement, terminating December 31, 2016.

The 2017 Smith Agreement provides for a one-year term through December 31, 2017 and for an annual salary of \$1.00. Mr. Smith is entitled to receive a bonus payment equal to 2.5% of the aggregate value of any application sale or license of any patent rights or products effected during the term of the 2017 Smith Agreement.

Mr. Smith is also entitled to a termination fee if the agreement is terminated for the following two reasons:

A termination without cause: If Mr. Smith is terminated without cause he will be entitled to a termination fee of \$100,000 per year of service (including the pro-rata amount for partial years of service);

A termination upon a change of control event: Following a change of control event he will be entitled to a termination fee equal to \$100,000 per year of service (including the pro-rata amount for partial years of service) plus 2.5% of the aggregate transaction value of the change of control.

In connection with the 2017 Smith Agreement, the Company issued Mr. Smith an option pursuant to the 2017 Plan to purchase 5,000,000 shares of common stock of the Company at a price of \$0.05 per share with 1,250,000 shares vesting every three months starting March 31, 2017.

On September 1, 2017, Mr. Smith and the Company entered into an amendment to the 2017 Smith Agreement (the "September Amendment"), whereby the term of the agreement was extended from December 31, 2017 to December 31, 2018 and automatically renews for one-year increments under the same terms and conditions of the 2017 Smith Agreement, unless either party gives written notice to the other party at least 30 days prior to the end of such calendar year.

In connection with the September Amendment, the Company issued Mr. Smith an option pursuant to the Company's 2017 Plan to purchase 5,000,000 shares of common stock of the Company at a price of \$0.06 per share, with 1,250,000 shares vesting every three months starting December 31, 2017.

Michael R. Guzzetta – Mr. Guzzetta is Chief Financial Officer of the Company. He entered into a consulting agreement with the Company dated November 14, 2017. The consulting agreement term is from November 14, 2017 to December 1, 2018, with automatic renewal in one-year increments with both parties having a right to terminate by giving either party notice 30 days prior to the end of the term. It also provides for a monthly consulting fee of \$5,000.

In connection with the consulting agreement, the Company issued Mr. Guzzetta an option pursuant to the 2017 Plan to purchase 1,000,000 shares of common stock of the Company at a price of \$0.07 per share with 250,000 shares vesting every three months starting February 14, 2018.

Susan M. Woodward – Ms. Woodward was Chief Financial Officer of the Company until November 13, 2017 when she resigned. She initially entered into a consulting agreement with the Company dated March 30, 2015 (effective January 1, 2015). On December 21, 2015, Ms. Woodward and the Company entered into a new consulting agreement effective January 1, 2016, superseding the prior agreement (the "2016 Woodward Agreement"), which provided for a one-year term through December 31, 2016. It also provided for a monthly consulting fee of \$5,000 and a termination

fee if the 2016 Woodward Agreement was terminated.

In connection with the 2016 Woodward Agreement, the Company issued Ms. Woodward an option pursuant to the 2015 Plan to purchase 4,000,000 shares of common stock of the Company at a price of \$0.08 per share with 1,000,000 shares vesting every three months starting March 31, 2016. On or about December 30, 2016, the Company entered into a new consulting agreement with Ms. Woodward, effective January 1, 2017 (the "2017 Woodward Agreement") which replaced the 2016 Woodward Agreement, terminating December 31, 2016.

The 2017 Woodward Agreement was for a one-year term through December 31, 2017 and provided for a monthly consulting fee of \$6,000 and a termination fee if it is terminated for the following two reasons:

A termination without cause: If Ms. Woodward is terminated within 12 months of January 1, 2017 she will be entitled to a termination fee of \$72,000 per year of service (including the pro-rata amount for partial years of service);

A termination upon a change of control event: Following a change of control event she will be entitled to a termination fee of \$72,000 per year of service (including the pro-rata amount for partial years of service).

On November 3, 2017, the Company and Susan M. Woodward entered into a settlement agreement and agreed that Ms. Woodward would leave her position as chief financial officer (CFO), effective upon the filing of the Company's quarterly report for the quarter ended September 30, 2017, in satisfactory form, but remain engaged to assist the Company through December 31, 2017, and to transition books and records of the Company. Upon the filing of the Company's quarterly report for the quarter ended September 30, 2017, and Ms. Woodward's subsequent resignation as chief financial officer (CFO) and a consultant on November 13, 2017, the 2017 Woodward Agreement terminated.

Outstanding Equity Awards at Fiscal Year-End

The following table provides information as to option awards held by each of the named executive officers of ProtoKinetix as of December 31, 2017.

Name	Option Awards		Option Exercise Price (\$)	Option Expiration Date
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable		
Clarence E. Smith	5,000,000 ⁽¹⁾	-	0.08	12/31/2019
	5,000,000 ⁽²⁾	-	0.05	12/31/2020
	1,250,000 ⁽³⁾	3,750,000	0.06	8/31/2021